

## (1) GENERAL INFORMATION:

- (i) APPLICANTS: Boon-Falleur, Thierry; Van der Bruggen, Thierry; Van den Eynde, Benoît; Van Pel, Aline; De Plaen, Etienne; Lurquin, Christophe; Chomez, Patrick; Traversari, Catia
- (ii) TITLE OF INVENTION: Tumor Rejection Antigen Precursors, Tumor Rejection Antigens and Uses Thereof
- (iii) NUMBER OF \SEQUENCES: 26
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: Fulbright & Jaworski LLP
  - (B) STREET: 666 Fifth Avenue
  - (C) CITY: New York City
  - (D) STATE: New York
  - (E) COUNTRY; USA
  - (F) ZIP: 101\( \bar{0} \) 3
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
  - (B) COMPUTER: \IBM
  - (C) OPERATING SYSTEM: PC-DOS
  - (D) SOFTWARE: Wordperfect
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: 08/819,669
  - (B) FILING DATE: 17-March-1997
  - (C) CLASSIFICATION: 435
- (vii) PRIOR APPLIATION DATA:
  - (A) APPLICATION NUMBER: 08/142,368
  - (B) FILING DATE: 0\2-MAY-1994
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: PCT/US92/04354
  - (B) FILING DATE: 22-MAY-1992
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: 07/807,043
  - (B) FILING DATE: 12-DECEMBER-1991
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: 07/764,364
  - (B) FILING DATE: 23-SEPTEMBER-1991
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: \07/728,838
  - (b) FILING DATE: 9-JULY 1991
- (vii) PRIOR APPLICATION DATA:

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(A) APPLICATION NUMBER: 07/705,702 (B) FILING DATE ! 23-May-1991 (viii) ATTORNEY/AGENT\ INFORMATION: (A) NAME: Hanson, Norman D. (B) REGISTRATION \NUMBER: 30,946 (C) REFERENCE/DOCKET NUMBER: LUD 5253.5-US (ix) TELECOMMUNICATION \INFORMATION: (A) TELEPHONE: (21/2)318-3168 (B) TELEFAX: (212) 752-5958 INFORMATION FOR SEQUENCE \ID NO: 1: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 462 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA SEQ ID NO: 1: (xi) SEQUENCE DESCRIPTION: ACCACAGGAG AATGAAAAGA ACCCGGGACT CCCAAAGACG CTAGATGTGT GAAGATCCTG 60 ATCACTCATT GGGTGTCTGA GTTCTGCGAT ATTCATCCCT CAGCCAATGA GCTTACTGTT 120 CTCGTGGGGG GTTTGTGAGC CTTGGGTAGG AAGTTTTGCA AGTTCCGCCT ACAGCTCTAG 180 CTTGTGAATT TGTACCCTTT CACGTAAAAA AGTAGTCCAG AGTTTACTAC ACCCTCCCTC 240 CCCCCTCCCA CCTCGTGCTG TGCTGAGTTT AGAAGTCTTC CTTATAGAAG TCTTCCGTAT 300 AGAACTCTTC CGGAGGAAGG AGGGAGGACC CCCCCCTTT GCTCTCCCAG CATGCATTGT 360 420 TATCTTAACT TAGCTCGGCT TCCTGCTGGT ACCCTTTGTG CC 462 INFORMATION FOR SEQUENCE ID NO: 2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 675 base pairs (B) TYPE: nucleic acid(C) STRANDEDNESS: single (D) TOPOLOGY: linear

ATG TCT GAT AAC AAG AAA CCA GAC AAA GCC CAC AGT 'GGC TCA GGT GGT Met Ser Asp Asn Lys Lys Pro Asp Lys Ala His Ser Gly Ser Gly Gly 5 15 10 96. GAC GGT GAT GGG AAT AGG TGC AAT TTA TTG CAC CGG TAC TCC CTG GAA

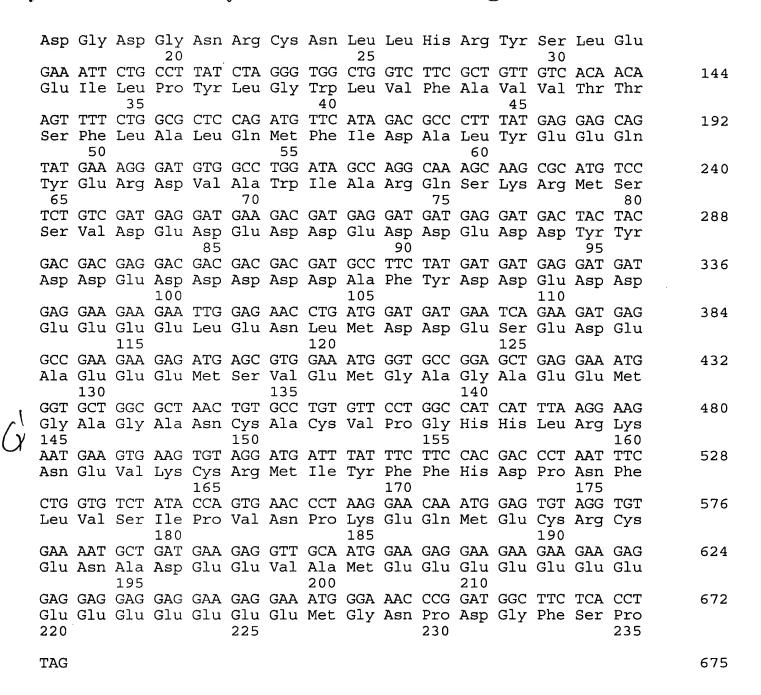
(ii) MOLECULE TYPE: genomic DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

576670.1

(2)

(2)



### (2) INFORMATION FOR SEQUENCE ID NO: 3:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 228 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: genomic DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GCATGCAGTT	GCAAAGCCCA	GAAGAAAGAA	ATGGACAGCG	GAAGAAGTGG	TTGTTTTTTT	60
TTCCCCTTCA	TTAATTTTCT	AGTTTTTAGT	AATCCAGAAA	ATTTGATTTT	GTTCTAAAGT	120
TCATTATGCA	AAGATGTCAC	CAACAGACTT	CTGACTGCAT	GGTGAACTTT	CATATGATAC	180
ATAGGATTAC	ACTTGTACCT	GTTAAAAATA	AAAGTTTGAC	TTGCATAC		228

- INFORMATION FOR SEQUENCE ID NO: 4: (2)
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1365 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

ACCACAGGAG AATGAAAAGA ACCCGGGACT CCCAAAGACG CTAGATGTGT	50
GAAGATCCTG ATCACTCATT GGGTGTCTGA GTTCTGCGAT ATTCATCCCT	100
CAGCCAATGA GCTTACTGTT CTCGTGGGGG GTTTGTGAGC CTTGGGTAGG	150
AAGTTTTGCA AGTTCCGCCT ACAGCTCTAG CTTGTGAATT TGTACCCTTT	200
CACGTAAAAA AGTAGTCCAG AGTTTACTAC ACCCTCCCTC CCCCCTCCCA	250
CCTCGTGCTG TGCTGAGTTT AGAAGTCTTC CTTATAGAAG TCTTCCGTAT	300
AGAACTCTTC CGGAGGAAGG AGGGAGGACC CCCCCCTTT GCTCTCCCAG	350
CATGCATTGT GTCAACGCCA TTGCACTGAG CTGGTCGAAG AAGTAAGCCG	400
CTAGCTTGCG ACTCTACTCT TATCTTAACT TAGCTCGGCT TCCTGCTGGT	450
ACCCTTTGTG CC	462
ATG TCT GAT AAC AAG AAA CCA GAC AAA GCC CAC AGT GGC TCA	504
GGT GGT GAC GGT GAT GGG AAT AGG TGC AAT TTA TTG CAC CGG	546
TAC TCC CTG GAA GAA ATT CTG CCT TAT CTA GGG TGG CTG GTC	588
TTC GCT GTT GTC ACA ACA AGT TTT CTG GCG CTC CAG ATG TTC	630
ATA GAC GCC CTT TAT GAG GAG CAG TAT GAA AGG GAT GTG GCC	672
TGG ATA GCC AGG CAA AGC AAG CGC ATG TCC TCT GTC GAT GAG	714
GAT GAA GAC GAT GAG GAT GAG GAT GAC TAC TAC GAC GAC	756
GAG GAC GAC GAC GAT GCC TTC TAT GAT GAT GAG GAT GAT	798
GAG GAA GAA TTG GAG AAC CTG ATG GAT GAA TCA GAA	840
GAT GAG GCC GAA GAA GAG ATG AGC GTG GAA ATG GGT GCC GGA	882
GCT GAG GAA ATG GGT GCT GGC GCT AAC TGT GCC TGT GTT CCT	924
GGC CAT CAT TTA AGG AAG AAT GAA GTG AAG TGT AGG ATG AT	966
TAT TTC TTC CAC GAC CCT AAT TTC CTG GTG TCT ATA CCA GTG	1008
AAC CCT AAG GAA CAA ATG GAG TGT AGG TGT GAA AAT GCT GAT	1050
GAA GAG GTT GCA ATG GAA GAG GAA GAA GAA GAG GAG GAG	1092
GAG GAG GAA GAG GAA ATG GGA AAC CCG GAT GGC TTC TCA CCT	1134
TAG	1137
GCATGCAGTT GCAAAGCCCA GAAGAAAGAA ATGGACAGCG GAAGAAGTGG	1187
TTGTTTTTTT TTCCCCTTCA TTAATTTTCT AGTTTTTAGT AATCCAGAAA	1237
ATTTGATTTT GTTCTAAAGT TCATTATGCA AAGATGTCAC CAACAGACTT	1287
CTGACTGCAT GGTGAACTTT CATATGATAC ATAGGATTAC ACTTGTACCT	1337
GTTAAAAATA AAAGTTTGAC TTGCATAC	1365

- (2) INFORMATION FOR SEQUENCE ID NO: 5:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 4698 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

ACCACAGGAG AATGAAAAGA ACCCGGGACT CCCAAAGACG CT	FAGATGTGT	50
GAAGATCCTG ATCACTCATT GGGTGTCTGA GTTCTGCGAT AT	FTCATCCCT	100
CAGCCAATGA GCTTACTGTT CTCGTGGGGG GTTTGTGAGC CT	TTGGGTAGG	150
AAGTTTTGCA AGTTCCGCCT ACAGCTCTAG CTTGTGAATT TO	GTACCCTTT	200
	CCCCTCCCA	250
	CTTCCGTAT	300
	CTCTCCCAG	350
CATGCATTGT GTCAACGCCA TTGCACTGAG CTGGTCGAAG AA		400
CTAGCTTGCG ACTCTACTCT TATCTTAACT TAGCTCGGCT TO		450
ACCCTTTGTG CC	201001001	462
ATG TCT GAT AAC AAG AAA CCA GAC AAA GCC CAC AG	GT GGC TCA	504
GGT GGT GAC GGT GAT GGG AAT AGG TGC AAT TTA TT		546
	GG CTG GTC	
	<del>-</del>	588
		630
ATA GAC GCC CTT TAT GAG GAG CAG TAT GAA AGG GA		672
TGG ATA GCC AGG CAA AGC AAG CGC ATG TCC TCT GT		714
GAT GAA GAC GAT GAG GAT GAG GAT GAC TAC TA		756
GAG GAC GAC GAC GAT GCC TTC TAT GAT GAT		798
GAG GAA GAA TTG GAG AAC CTG ATG GAT GAT		840
GAT GAG GCC GAA GAA GAG ATG AGC GTG GAA ATG GC	FT GCC GGA	882
GCT GAG GAA ATG GGT GCT GGC GCT AAC TGT GCC T		916
	CATTCTTTA	966
	GGTCATTGC	1016
TGGAGCCATT CCTGGCTCTC CTGTCCACGC CTATCCCCGC TC	CCTCCCATC	1066
CCCCACTCCT TGCTCCGCTC TCTTTCCTTT TCCCACCTTG CC	CTCTGGAGC	1116
TTCAGTCCAT CCTGCTCTGC TCCCTTTCCC CTTTGCTCTC CT	TTGCTCCCC	1166
TCCCCCTCGG CTCAACTTTT CGTGCCTTCT GCTCTCTGAT CC	CCCACCCTC	1216
TTCAGGCTTC CCCATTTGCT CCTCTCCCGA AACCCTCCCC TT	TCCTGTTCC	1266
CCTTTTCGCG CCTTTTCTTT CCTGCTCCCC TCCCCCTCCC TA	ATTTACCTT	1316
TCACCAGCTT TGCTCTCCCT GCTCCCCTCC CCCTTTTGCA CC	CTTTTCTTT	1366
TCCTGCTCCC CTCCCCTCC CCTCCCTGTT TACCCTTCAC CG	GCTTTTCCT	1416
CTACCTGCTT CCCTCCCCCT TGCTGCTCCC TCCCTATTTG CA	ATTTTCGGG	1466
TGCTCCTCCC TCCCCCTCCC CCTCCCTCCC TATTTGCATT TT	TCGGGTGCT	1516
	TTTTTTTT	1566
	TCCTGGCAC	1616
	CTGCCTCTG	1666
CCTCCCAAAT GCTGGGATTA AAGGCTTGCA CCAGGACTGC CC		1716
	CTGCATGTT	1766
	CCTCCCTGT	1816
	CCTGCTCC	1866
	CTGCTTTCT	1916
	CCACCTTCC	1966
	rgctttttt	2016
	CCGGCTTCC	2066
	CCCTCCCTT	2116
	AATGCCTTT	2116
	TGCACTTTT	2216
	CCCACCTC	2216
0010100010 0100001100 0010011	CTCCCACT	2316
	IGCTGCTG	2316
TCCTGCTTCC TTTACCCCTT CCCTCTCCCT ACTCTCCTCC CT	190019019	2300

GACTTCCTCT CCAGCCGCCC AGTTCCCTGC AGTCCTGGAG	TCTTTCCTGC	2416
CTCTCTGTCC ATCACTTCCC CCTAGTTTCA CTTCCCTTTC	ACTCTCCCCT	2466
ATGTGTCTCT CTTCCTATCT ATCCCTTCCT TTCTGTCCCC	TCTCCTCTGT	2516
CCATCACCTC TCTCCTCCCT TCCCTTTCCT CTCTCTTCCA	TTTTCTTCCA	2566
CCTGCTTCTT TACCCTGCCT CTCCCATTGC CCTCTTACCT	TTATGCCCAT	2616
TCCATGTCCC CTCTCAATTC CCTGTCCCAT TGTGCTCCCT	CACATCTTCC	2666
ATTTCCCTCT TTCTCCCTTA GCCTCTTCTT CCTCTTCTCT	TGTATCTCCC	2716
TTCCCTTTGC TTCTCCCTCC TCCTTTCCCC TTCCCCTATG	CCCTCTACTC	2766
TACTTGATCT TCTCTCCTCT CCACATACCC TTTTTCCTTT	CCACCCTGCC	2816
CTTTGTCCCC AGACCCTACA GTATCCTGTG CACAGGAAGT	GGGAGGTGCC	2866
ATCAACAACA AGGAGGCAAG AAACAGAGCA AAATCCCAAA	ATCAGCAGGA	2916
AAGGCTGGAT GAAAATAAGG CCAGGTTCTG AGGACAGCTG	GAATCTAGCC	2966
AAGTGGCTCC TATAACCCTA AGTACCAAGG GAGAAAGTGA	TGGTGAAGTT	3016
CTTGATCCTT GCTGCTTCTT TTACATATGT TGGCACATCT	TTCTCAAATG	3066
CAGGCCATGC TCCATGCTTG GCGCTTGCTC AGCGTGGTTA		3116
GAATCTGAAA ACTAGGGGCC AGTGGTTTGT TTTGGGGACA		3166
TAGTGATATT TCCCCCTAAA AATTATAACA AACAGATTCA	TGATTTGAGA	3216
TCCTTCTACA GGTGAGAAGT GGAAAAATTG TCACTATGAA	GTTCTTTTTA	3266
GGCTAAAGAT ACTTGGAACC ATAGAAGCGT TGTTAAAATA	CTGCTTTCTT	3316
TTGCTAAAAT ATTCTTTCTC ACATATTCAT ATTCTCCAG		3355
GT GTT CCT GGC CAT CAT TTA AGG AAG AAT GAA	GTG AAG TGT	3396
AGG ATG ATT TAT TTC TTC CAC GAC CCT AAT TTC	CTG GTG TCT	3438
	AGG TGT GAA	3480
AAT GCT GAT GAA GAG GTT GCA ATG GAA GAG GAA		3522
GAG GAG GAG GAG GAA GAG GAA ATG GGA AAC	CCG GAT GGC	3564
TTC TCA CCT TAG		3576
GCATGCAGGT ACTGGCTTCA CTAACCAACC ATTCCTAACA		3626
	ACAATTGTTA	3676
TCTTTTTACA TTAATAAGTA TTAAATTAAT CCAGTATACA	GTTTTAAGAA	3726
	GIIIIAGAA	
CCCTAAGTTA AACAGAAGTC AATGATGTCT AGATGCCTGT	TCTTTAGATT	3776
	TCTTTAGATT	3776
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT	TCTTTAGATT CGGGAGTAGA	3776 3826
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA	TCTTTAGATT CGGGAGTAGA TCGCATATTG	3776 3826 3876
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT	3776 3826 3876 3926
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG	3776 3826 3876 3926 3976
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGAG	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT	3776 3826 3876 3926 3976 4026
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGAG CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAGT	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT TTTTTTCACT	3776 3826 3876 3926 3976 4026 4076
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGAG CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAGT TAGAATTCAA TTCAAATTCT TAATTCTAATC TTAATTTTTA	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT TTTTTTCACT GATTTCTTAA	3776 3826 3876 3926 3976 4026 4076 4126
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGAG CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAGT TAGAATTCAA TTCAAATTCT TAATTCAATC TTAATTTTTA AATGTTTTTT AAAAAAAATG CAAATCTCAT TTTTAAGAGA	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT TTTTTTCACT GATTTCTTAA TGAAAGCAGA	3776 3826 3876 3926 3976 4026 4076
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGAG CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAGT TAGAATTCAA TTCAAATTCT TAATTCTAATC TTAATTTTTA	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT TTTTTTCACT GATTTCTTAA TGAAAGCAGA	3776 3826 3876 3926 3976 4026 4076 4126
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGAG CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAGT TAGAATTCAA TTCAAATTCT TAATTCAATC TTAATTTTTA AATGTTTTTT AAAAAAAATG CAAATCTCAT TTTTAAGAGA	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT TTTTTTCACT GATTTCTTAA TGAAAGCAGA GCAATAGGGA	3776 3826 3876 3926 3976 4026 4076 4126 4176
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGAG CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAGT TAGAATTCAA TTCAAATTCT TAATTCAATC TTAATTTTTA AATGTTTTTT AAAAAAAATG CAAATCTCAT TTTTAAGAGA GTAACTGGGG GGCTTAGGGA ATCTGTAGGG TTGCGGTATA GTTCTGGTCT CTGAGAAGCA GTCAGAGAGA ATGGAAAACC	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT TTTTTTCACT GATTTCTTAA TGAAAGCAGA GCAATAGGGA AGGCCCTTGC	3776 3826 3876 3926 3976 4026 4076 4126 4176 4226 4276
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGAG CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAGT TAGAATTCAA TTCAAATTCT TAATTCCATC TTAATTTTTA AATGTTTTTT AAAAAAAATG CAAATCTCAT TTTTAAGAGA GTAACTGGGG GGCTTAGGGA ATCTGTAGGG TTGCGGTATA GTTCTGGTCT CTGAGAAGCA GTCAGAGAGA ATGGAAAACC CAGTAGGTTA GTGAGGGTTGA TATGATCAGA	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT TTTTTTCACT GATTTCTTAA TGAAAGCAGA GCAATAGGGA AGGCCCTTGC TCTCCAAATC	3776 3826 3876 3926 3976 4026 4076 4126 4176 4226 4276 4326
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GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGAG CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAGT TAGAATTCAA TTCAAATTCT TAATTCCAT TTAATTTTTA AATGTTTTTT AAAAAAAATG CAAATCTCAT TTTTAAGAGA GTAACTGGGG GGCTTAGGGA ATCTGTAGGG TTGCGGTATA GTTCTGGTCT CTGAGAAGCA GTCAGAGAGA ATGGAAAACC CAGTAGGTTA GTGAGGTTGA TATGATCAGA TTATGGACAC ATAAATACTC TAACAGCTAA GGATCTCTGA GGGAAACACA ATTTTAGTTT CTCCTTGAGAA AACAATGACA AGACATAAAA	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT TTTTTTCACT GATTTCTTAA TGAAAGCAGA GCAATAGGGA AGGCCCTTGC TCTCCAAATC ACAGGGAAAT TTGGCAAGAA	3776 3826 3876 3926 3976 4026 4076 4126 4176 4226 4276 4326 4376 4426
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGAG CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAGT TAGAATTCAA TTCAAATTCT TAATTCAATC TTAATTTTTA AATGTTTTTT AAAAAAAATG CAAATCTCAT TTTTAAGAGA GTAACTGGGG GGCTTAGGGA ATCTGTAGGG TTGCGGTATA GTTCTGGTCT CTGAGAAGCA GTCAGAGAGA ATGGAAAACC CAGTAGGTTA GTGAGGTTGA TATGATCAGA TTATGGACAC ATAAATACTC TAACAGCTAA GGATCTCTGA GGGAAACACA ATTTTAGTTT CTCCTTGAGA AACAATGACA AGACATAAAA AGTCAGGAGT GTATTCTAAT AAGTGTTGCT TATCTCTTAT	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT TTTTTTCACT GATTTCTTAA TGAAAGCAGA GCAATAGGGA AGGCCCTTGC TCTCCAAATC ACAGGGAAAT TTGGCAAGAA TTTCTTCTAC	3776 3826 3876 3926 3976 4026 4076 4126 4176 4226 4376 4326 4476
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGAG CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAGT TAGAATTCAA TTCAAATTCT TAATTCAATC TTAATTTTTA AATGTTTTTT AAAAAAAATG CAAATCTCAT TTTTAAGAGA GTAACTGGGG GGCTTAGGGA ATCTGTAGGG TTGCGGTATA GTTCTGGTCT CTGAGAAGCA GTCAGAGAGA ATGGAAAACC CAGTAGGTTA GTGAGGTTGA TATGATCAGA TTATGGACAC ATAAATACTC TAACAGCTAA GGATCTCTGA GGGAAACACA ATTTTAGTTT CTCCTTGAGA AACAATGACA AGACATAAAA AGTCAGGAGT GTATTCTAAT AAGTGTTGCT TATCTCTTAT AGTTGCAAAG CCCAGAAGAA AGAAATGGAC AGCGGAAGAA	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT TTTTTTCACT GATTTCTTAA TGAAAGCAGA GCAATAGGGA AGGCCCTTGC TCTCCAAATC ACAGGGAAAT TTGGCAAGAA TTTCTTCTAC GTGGTTGTTT	3776 3826 3876 3926 3976 4026 4076 4126 4276 4226 4376 4476 4526
GTAGTGAGAC TACTTACTAC AGATGAGAAG TTGTTAGACT GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGAG CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAGT TAGAATTCAA TTCAAAATTCT TAATTTCATT TAATTTTTA AATGTTTTT AAAAAAAAATG CAAATCTCAT TTTTAAGAGA GTAACTGGGG GGCTTAGGGA ATCTGTAGGG TTGCGGTATA GTTCTGGTCT CTGAGAAGCA GTCAGAGAGA ATGGAAAACC CAGTAGGTTA GTGAGGTTGA TATGATCAGA TTATGGACAC ATAAAATACTC TAACAGCTAA GGATCTCTGA GGGAAACACA ATTTTAGTTT CTCCTTGAGA AACAATGACA AGACATAAAA AGTCAGGAGT GTATTCTAAT AAGTGTTGCT TATCTCTTAT AGTTGCAAAG CCCAGAAGAA AGAAATGGAC AGCGGAAGAA TTTTTTCCCC TTCATTAATT TTCTAGTTT TAGTAATCCA	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT TTTTTTCACT GATTTCTTAA TGAAAGCAGA GCAATAGGGA AGGCCCTTGC TCTCCAAATC ACAGGGAAAT TTGGCAAGAA TTTCTTCTAC GTGGTTGTTT GAAAATTTGA	3776 3826 3876 3926 3976 4026 4076 4126 4276 4326 4376 4476 4526 4576
GTAGTGAGAC GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG CTTAAAATTT CCTTCATCTT TAATTTCCT TAACTTTAGT AAAAAAATTCT TAATTTCCT TAACTTTTAAGT AAAAAAAAATG GTAACTGGGG GGCTTAGGGA ATCTGAGGA GTCAGAGAGA GTCAGAGAGA GTCAGAGAGA ATGGAAACC CAGTAGGTTA GTGAGGTTA GTGAGGTTA GTGAGGTTA GTGAGGTTA ATTTTAGTTT CTCCTTGAGA AACAATGACA ATTTTAGTTT CTCCTTGAGA AACAATGACA AGACATAAAA AGTCAGGAG GTATTCTAAT AAGTGTTGCT TTTTTTAT AGTACACA ATTTTTCCCC TTCATTAATT TTCTAGTTT TAGTACCA TTTTTTCCCC TTCATTAATT TTCTAGTTT TAGTACCA TTAGTACCA TTTTTTTCCCC TTCATTAATT TTCTAGTTT TAGTAACCA TTAGTACCA TTAGTACCA TTCTTTTTT TAGTAACCA TTCTTAATT TTCTAGTTT TAGTAACCA TTCTTAATT TTCTAGTTT TAGTAACCA TTCTTTTTTTCCCC TTCATTAATT TTCTAGTTT TAGTAACCA	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT TTTTTTCACT GATTTCTTAA TGAAAGCAGA GCAATAGGGA AGGCCCTTGC TCTCCAAATC ACAGGGAAAT TTGGCAAGAA TTTCTTCTAC GTGGTTGTTT GAAAATTTGA ACTTCTGACT	3776 3826 3876 3926 4026 4076 4126 4276 4326 4376 4426 4476 4526 4576 4626
GTAGTGAGAC GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG TTTTAAAGAG CTTAAAATTT CCTTCATCTT TAATTTTCCT TAACTTTAGT AAAAAAAATCT TAATTTCATTTT AAAAAAAAATG CTAAACTGGGG GGCTTAGGGA GTCACGGG TTTTAAAGAG TTCAAATTCT TAATTTCATTTT AAAAAAAAATG CAAATCTCAT TTTTAAGAGA GTACTGGGG GGCTTAGGGA ATCTGTAGGG TTGCGGTATA GTTCTGGTCT CTGAGAAGCA GTCAGAGAGA ATGGAAACC ATTATAGTTT CTCCTTGAGA ACCAATCTCTGA GGGAAACAC ATTTTAGTTT CTCCTTGAGA AACAATGACA AGACATAAAA AGTCAGGAGT GTATTCTAAT AGTGTTGCT TTCATTAAT TTCTAGTTT TAGTACCA TTTTTTCCCC TTCATTAATT TTCTAGTTT TAGTAATCCA TTTTTTTCCATATA TTCTAATAGTTT TAGTAATCCA TTTTTTTCTAAT TTCTAGTTT TAGTAATCCA TTTTTTTCTAAT TTCTAATTAGTTT TAGTAATCCA TTTTTTTCTAAT TTCTAATTAGTTT TAGTAATCCA TTACACTTGT	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT TTTTTTCACT GATTTCTTAA TGAAAGCAGA GCAATAGGGA AGGCCCTTGC TCTCCAAATC ACAGGGAAAT TTGGCAAGAA TTTCTTCTAC GTGGTTGTTT GAAAATTTGA ACTTCTGACT	3776 3826 3876 3926 4026 4076 4126 4126 4276 4326 4376 4426 4576 4626 4676
GTAGTGAGAC GACCAGTAAA AGATCATGCA GTGAAATGTG GCCATGGAAA TTCTTATAGT ACCTTTGAGA CAGCTGATAA CAGCTGACAA TTCAAGAAAG ATCACACGCC ATGGTTCACA TGCAAATTAT TTCTGATTTT TTTCATTTCT AGACCTGTGG CTTAAAATTT CCTTCATCTT TAATTTCCT TAACTTTAGT AAAAAAATTCT TAATTTCCT TAACTTTTAAGT AAAAAAAAATG GTAACTGGGG GGCTTAGGGA ATCTGAGGA GTCAGAGAGA GTCAGAGAGA GTCAGAGAGA ATGGAAACC CAGTAGGTTA GTGAGGTTA GTGAGGTTA GTGAGGTTA GTGAGGTTA ATTTTAGTTT CTCCTTGAGA AACAATGACA ATTTTAGTTT CTCCTTGAGA AACAATGACA AGACATAAAA AGTCAGGAG GTATTCTAAT AAGTGTTGCT TTTTTTAT AGTACACA ATTTTTCCCC TTCATTAATT TTCTAGTTT TAGTACCA TTTTTTCCCC TTCATTAATT TTCTAGTTT TAGTACCA TTAGTACCA TTTTTTTCCCC TTCATTAATT TTCTAGTTT TAGTAACCA TTAGTACCA TTAGTACCA TTCTTTTTT TAGTAACCA TTCTTAATT TTCTAGTTT TAGTAACCA TTCTTAATT TTCTAGTTT TAGTAACCA TTCTTTTTTTCCCC TTCATTAATT TTCTAGTTT TAGTAACCA	TCTTTAGATT CGGGAGTAGA TCGCATATTG AAATAAGTGT TATTTTGTCG ATGAAAATCT TTTTTTCACT GATTTCTTAA TGAAAGCAGA GCAATAGGGA AGGCCCTTGC TCTCCAAATC ACAGGGAAAT TTGGCAAGAA TTTCTTCTAC GTGGTTGTTT GAAAATTTGA ACTTCTGACT	3776 3826 3876 3926 4026 4076 4126 4276 4326 4376 4426 4476 4526 4576 4626

- (2) INFORMATION FOR SEQUENCE ID NO: 6:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 9 amino acids
    - (B) TYPE: amino acid
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: protein
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

Leu Pro Tyr Leu Gly Trp Leu Val Phe 5

- (2) INFORMATION FOR SEQUENCE ID NO: 7:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2419 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

GGATCCAGGC	CCTGCCAGGA	AAAATATAAG	GGCCCTGCGT	GAGAACAGAG	50
GGGGTCATCC	ACTGCATGAG	AGTGGGGATG	TCACAGAGTC	CAGCCCACCC	100
TCCTGGTAGC	ACTGAGAAGC	CAGGGCTGTG	CTTGCGGTCT	GCACCCTGAG	150
GGCCCGTGGA	TTCCTCTTCC	TGGAGCTCCA	GGAACCAGGC	AGTGAGGCCT	200
TGGTCTGAGA	CAGTATCCTC	AGGTCACAGA	GCAGAGGATG	CACAGGGTGT	250
GCCAGCAGTG	AATGTTTGCC	CTGAATGCAC	ACCAAGGGCC	CCACCTGCCA	300
CAGGACACAT	AGGACTCCAC	AGAGTCTGGC	CTCACCTCCC	TACTGTCAGT	350
CCTGTAGAAT	CGACCTCTGC	TGGCCGGCTG	TACCCTGAGT	ACCCTCTCAC	400
TTCCTCCTTC	AGGTTTTCAG	GGGACAGGCC	AACCCAGAGG	ACAGGATTCC	450
CTGGAGGCCA	CAGAGGAGCA	CCAAGGAGAA	GATCTGTAAG	TAGGCCTTTG	500
TTAGAGTCTC	CAAGGTTCAG	TTCTCAGCTG	AGGCCTCTCA	CACACTCCCT	550
CTCTCCCCAG	GCCTGTGGGT	CTTCATTGCC	CAGCTCCTGC	CCACACTCCT	600
GCCTGCTGCC	CTGACGAGAG	TCATCATGTC	TCTTGAGCAG	AGGAGTCTGC	650
ACTGCAAGCC	TGAGGAAGCC	CTTGAGGCCC	AACAAGAGGC	CCTGGGCCTG	700
GTGTGTGTGC	AGGCTGCCAC	CTCCTCCTCC	TCTCCTCTGG	TCCTGGGCAC	750
CCTGGAGGAG	GTGCCCACTG	CTGGGTCAAC	AGATCCTCCC	CAGAGTCCTC	800
AGGGAGCCTC	CGCCTTTCCC	ACTACCATCA	ACTTCACTCG	ACAGAGGCAA	850
CCCAGTGAGG	GTTCCAGCAG	CCGTGAAGAG	GAGGGGCCAA	GCACCTCTTG	900
TATCCTGGAG	TCCTTGTTCC	GAGCAGTAAT	CACTAAGAAG	GTGGCTGATT	950
TGGTTGGTTT	TCTGCTCCTC	AAATATCGAG	CCAGGGAGCC	AGTCACAAAG	1000
GCAGAAATGC	TGGAGAGTGT	CATCAAAAAT	TACAAGCACT	GTTTTCCTGA	1050
GATCTTCGGC	AAAGCCTCTG	AGTCCTTGCA	GCTGGTCTTT	GGCATTGACG	1100
TGAAGGAAGC	AGACCCCACC	GGCCACTCCT	ATGTCCTTGT	CACCTGCCTA	1150
GGTCTCTCCT	ATGATGGCCT	GCTGGGTGAT	AATCAGATCA	TGCCCAAGAC	1200
AGGCTTCCTG	ATAATTGTCC	TGGTCATGAT	TGCAATGGAG	GGCGGCCATG	1250
CTCCTGAGGA	GGAAATCTGG	GAGGAGCTGA	GTGTGATGGA	GGTGTATGAT	1300
GGGAGGGAGC	ACAGTGCCTA	TGGGGAGCCC	AGGAAGCTGC	TCACCCAAGA	1350
TTTGGTGCAG	GAAAAGTACC	TGGAGTACGG	CAGGTGCCGG	ACAGTGATCC	1400

CGCACGCTAT	GAGTTCCTGT	GGGGTCCAAG	GGCCCTCGCT	GAAACCAGCT	1450
ATGTGAAAGT	CCTTGAGTAT	GTGATCAAGG	TCAGTGCAAG	AGTTCGCTTT	1500
TTCTTCCCAT	CCCTGCGTGA	AGCAGCTTTG	AGAGAGGAGG	AAGAGGGAGT	1550
CTGAGCATGA	GTTGCAGCCA	AGGCCAGTGG	GAGGGGGACT	GGGCCAGTGC	1600
ACCTTCCAGG	GCCGCGTCCA	GCAGCTTCCC	CTGCCTCGTG	TGACATGAGG	1650
CCCATTCTTC	ACTCTGAAGA	GAGCGGTCAG	TGTTCTCAGT	AGTAGGTTTC	1700
TGTTCTATTG	GGTGACTTGG	AGATTTATCT	TTGTTCTCTT	TTGGAATTGT	1750
TCAAATGTTT	TTTTTTAAGG	GATGGTTGAA	TGAACTTCAG	CATCCAAGTT	1800
TATGAATGAC	AGCAGTCACA	CAGTTCTGTG	TATATAGTTT	AAGGGTAAGA	1850
GTCTTGTGTT	TTATTCAGAT	TGGGAAATCC	ATTCTATTTT	GTGAATTGGG	1900
ATAATAACAG	CAGTGGAATA	AGTACTTAGA	AATGTGAAAA	ATGAGCAGTA	1950
AAATAGATGA	GATAAAGAAC	TAAAGAAATT	AAGAGATAGT	CAATTCTTGC	2000
CTTATACCTC	AGTCTATTCT	GTAAAATTTT	TAAAGATATA	TGCATACCTG	2050
GATTTCCTTG	GCTTCTTTGA	GAATGTAAGA	GAAATTAAAT	CTGAATAAAG	2100
AATTCTTCCT	GTTCACTGGC	TCTTTTCTTC	TCCATGCACT	GAGCATCTGC	2150
TTTTTGGAAG	GCCCTGGGTT	AGTAGTGGAG	ATGCTAAGGT	AAGCCAGACT	2200
CATACCCACC	CATAGGGTCG	TAGAGTCTAG	GAGCTGCAGT	CACGTAATCG	2250
<b>A</b> GGTGGCAAG	ATGTCCTCTA	AAGATGTAGG	GAAAAGTGAG	AGAGGGGTGA	2300
GGGTGTGGGG	CTCCGGGTGA	GAGTGGTGGA	GTGTCAATGC	CCTGAGCTGG	2350
GGCATTTTGG	GCTTTGGGAA	ACTGCAGTTC	CTTCTGGGGG	AGCTGATTGT	2400
AATGATCTTG	GGTGGATCC				2419

- (2) INFORMATION FOR SEQUENCE ID NO: 8:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 5674 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single

    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-1 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

CCCGGGGCAC	CACTGGCATC	CCTCCCCCTA	CCACCCCAA	TCCCTCCCTT	50
TACGCCACCC	ATCCAAACAT	CTTCACGCTC	ACCCCCAGCC	CAAGCCAGGC	100
AGAATCCGGT	TCCACCCCTG	CTCTCAACCC	AGGGAAGCCC	AGGTGCCCAG	150
ATGTGACGCC	ACTGACTTGA	GCATTAGTGG	TTAGAGAGAA	GCGAGGTTTT	200
CGGTCTGAGG	GGCGGCTTGA	GATCGGTGGA	GGGAAGCGGG	CCCAGCTCTG	250
TAAGGAGGCA	AGGTGACATG	CTGAGGGAGG	ACTGAGGACC	CACTTACCCC	300
AGATAGAGGA	CCCCAAATAA	TCCCTTCATG	CCAGTCCTGG	ACCATCTGGT	350
GGTGGACTTC	TCAGGCTGGG	CCACCCCAG	CCCCCTTGCT	GCTTAAACCA	400
CTGGGGACTC	GAAGTCAGAG	CTCCGTGTGA	TCAGGGAAGG	GCTGCTTAGG	450
AGAGGGCAGC	GTCCAGGCTC	TGCCAGACAT	CATGCTCAGG	ATTCTCAAGG	500
AGGGCTGAGG	GTCCCTAAGA	CCCCACTCCC	GTGACCCAAC	CCCCACTCCA	550
ATGCTCACTC	CCGTGACCCA	ACCCCCTCTT	CATTGTCATT	CCAACCCCCA	600
CCCCACATCC	CCCACCCCAT	CCCTCAACCC	TGATGCCCAT	CCGCCCAGCC	650
ATTCCACCCT	CACCCCCACC	CCCACCCCCA	CGCCCACTCC	CACCCCCACC	700
CAGGCAGGAT	CCGGTTCCCG	CCAGGAAACA	TCCGGGTGCC	CGGATGTGAC	750
GCCACTGACT	TGCGCATTGT	GGGGCAGAGA	GAAGCGAGGT	TTCCATTCTG	800

	TAGAGTTCGG				850
	AGAGGCTGAG				900
	AATATTCCAG			_	950
	CGTCTCAGCC				1000
	CACCAGGTTC				1050
	GCAGGACTGG				1100
	TCAGCACCCA				1150
	CCACTCCCAC				1200
	CAGCTACACC				1250
• • • • • • • • •	ACCCTCCAGC		<del></del>		1300
	TGCCCCCAAC				1350
	CCCCCATTCT				1400
	CCTGGTAGGC				1450
	GAAGCCAGGT				1500
	GGGAGTGGTT				1550
	ACTGAGGAGG				1600
	ACCCCTGCTG				1650
	GACCACCCC				1700
	AGTCATAGCT				1750
	AGGCATCAAG				1800
	GGAACTGAGG				1850
	CCACTCACAT				1900
	ATCCCTGCTG				1950
	GATCTTGACG				2000
	GGCCTCAGGG				2050
	AGAGGACCCA				2100
	CCACTTCTGG				2150
	GTGGGACCCA				2200
	AGGGGACCTT				2250
	GGGCACGGTG				2300
	GGACAGAGCT				2350
	GTTCCAGGAT				2400
	ATATCCCCGG				2450
	TTAGTAGCTC				2500
	ACTTGTACCA				2550
	GGGGTAAAGG				2600
	GCACAGGCGC				2650
	AATCCACACC				2700
	TGTGGCTTCT				2750
	CATTCTCAGA				2800
	AGACAGAGCG				2850
	GAGGACTGAG				2900
	ATCAGCCCTG				2950
	CCGAGGTCCT				3000
	CTTGGTCTGA				3050
	CTGCCAGGAG				3100
	TAATTCCAAT				3150
	GCACGTGTGG				3200
	GGATGTGAAC				3250
	CAGGCCCTGC				3300
	CATCCACTGC				3350
CACCCTCCTG	GTAGCACTGA	GAAGCCAGGG	CTGTGCTTGC	GGTCTGCACC	3400

CMCA CCCCCC CMCCA MIRCOM CMMCCMCCA C CMCCA CCA ACA	1 C3 CCC3 CEC3	
CTGAGGGCCC GTGGATTCCT CTTCCTGGAG CTCCAGGAAC		3450
GGCCTTGGTC TGAGACAGTA TCCTCAGGTC ACAGAGCAGA	_	3500
GGTGTGCCAG CAGTGAATGT TTGCCCTGAA TGCACACCAA	GGGCCCCACC 3	3550
TGCCACAGGA CACATAGGAC TCCACAGAGT CTGGCCTCAC	CTCCCTACTG 3	3600
TCAGTCCTGT AGAATCGACC TCTGCTGGCC GGCTGTACCC		3650
CTCACTTCCT CCTTCAGGTT TTCAGGGGAC AGGCCAACCC		3700
ATTCCCTGGA GGCCACAGAG GAGCACCAAG GAGAAGATCT		3750
CTTTGTTAGA GTCTCCAAGG TTCAGTTCTC AGCTGAGGCC		3800
TCCCTCTCTC CCCAGGCCTG TGGGTCTTCA TTGCCCAGCT		
		3850
CTCCTGCCTG CTGCCCTGAC GAGAGTCATC		3880
ATG TCT CTT GAG CAG AGG AGT CTG CAC TGC AAG		3922
GCC CTT GAG GCC CAA CAA GAG GCC CTG GGC CTG		3964
CAG GCT GCC ACC TCC TCC TCT CCT CTG GTC	CTG GGC ACC 4	1006
CTG GAG GAG GTG CCC ACT GCT GGG TCA ACA GAT	CCT CCC CAG 4	1048
AGT CCT CAG GGA GCC TCC GCC TTT CCC ACT ACC	ATC AAC TTC 4	1090
ACT CGA CAG AGG CAA CCC AGT GAG GGT TCC AGC	AGC CGT GAA 4	1132
GAG GAG GGG CCA AGC ACC TCT TGT ATC CTG GAG		1184
CGA GCA GTA ATC ACT AAG AAG GTG GCT GAT TTG		1216
CTG CTC CTC AAA TAT CGA GCC AGG GAG CCA GTC		1258
GAA ATG CTG GAG AGT GTC ATC AAA AAT TAC AAG		1300
CCT GAG ATC TTC GGC AAA GCC TCT GAG TCC TTG		1342
TTT GGC ATT GAC GTG AAG GAA GCA GAC CCC ACC		1384
TAT GTC CTT GTC ACC TGC CTA GGT CTC TCC TAT		1426
CTG GGT GAT AAT CAG ATC ATG CCC AAG ACA GGC	TTC CTG ATA 4	1468
ATT GTC CTG GTC ATG ATT GCA ATG GAG GGC GGC	CAT GCT CCT 4	1510
GAG GAG GAA ATC TGG GAG GAG CTG AGT GTG ATG	GAG GTG TAT 4	1552
GAT GGG AGG GAG CAC AGT GCC TAT GGG GAG CCC	AGG AAG CTG 4	1594
CTC ACC CAA GAT TTG GTG CAG GAA AAG TAC CTG	GAG TAC GGC 4	1636
AGG TGC CGG ACA GTG ATC CCG CAC GCT ATG AGT		1688
GTC CAA GGG CCC TCG CTG AAA CCA GCT ATG TGA		4711
AAGTCCTTGA GTATGTGATC AAGGTCAGTG CAAGAGTTC		1750
GCTTTTCTT CCCATCCCTG CGTGAAGCAG CTTTGAGAGA		1800
GGAGTCTGAG CATGAGTTGC AGCCAAGGCC AGTGGGAGGG		1850
AGTGCACCTT CCAGGGCCGC GTCCAGCAGC TTCCCCTGCC		1900
TGAGGCCCAT TCTTCACTCT GAAGAGAGCG GTCAGTGTTC		1950
GTTTCTGTTC TATTGGGTGA CTTGGAGATT TATCTTTGTT		5000
ATTGTTCAAA TGTTTTTTT TAAGGGATGG TTGAATGAAC		5050
AAGTTTATGA ATGACAGCAG TCACACAGTT CTGTGTATAT		5100
TAAGAGTCTT GTGTTTTATT CAGATTGGGA AATCCATTCT	ATTTGTGAA 5	5150
TTGGGATAAT AACAGCAGTG GAATAAGTAC TTAGAAATGT	'GAAAATGAG 5	5200
CAGTAAAATA GATGAGATAA AGAACTAAAG AAATTAAGAG	ATAGTCAATT 5	5250
CTTGCCTTAT ACCTCAGTCT ATTCTGTAAA ATTTTTAAAG		5300
ACCTGGATTT CCTTGGCTTC TTTGAGAATG TAAGAGAAAT		5350
TAAAGAATTC TTCCTGTTCA CTGGCTCTTT TCTTCTCCAT		5400
TCTGCTTTTT GGAAGGCCCT GGGTTAGTAG TGGAGATGCT		5450
AGACTCATAC CCACCCATAG GGTCGTAGAG TCTAGGAGCT		5500
AATCGAGGTG GCAAGATGTC CTCTAAAGAT GTAGGGAAAA		5550
GGTGAGGGTG TGGGGCTCCG GGTGAGAGTG GTGGAGTGTC		5600
GCTGGGGCAT TTTGGGCTTT GGGAAACTGC AGTTCCTTCT		5650
ATTGTAATGA TCTTGGGTGG ATCC	5	5674



- (2) INFORMATION FOR SEQUENCE ID NO: 9:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 4157 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-2 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

CCCATCCAGA	TCCCCATCCG	GGCAGAATCC	GGTTCCACCC	TTGCCGTGAA	50
CCCAGGGAAG	TCACGGGCCC	GGATGTGACG	CCACTGACTT	GCACATTGGA	100
GGTCAGAGGA	CAGCGAGATT	CTCGCCCTGA	GCAACGGCCT	GACGTCGGCG	150
GAGGGAAGCA	GGCGCAGGCT	CCGTGAGGAG	GCAAGGTAAG	ACGCCGAGGG	200
AGGACTGAGG	CGGGCCTCAC	CCCAGACAGA	GGGCCCCAA	TTAATCCAGC	250
GCTGCCTCTG	CTGCCGGGCC	TGGACCACCC	TGCAGGGGAA	GACTTCTCAG	300
GCTCAGTCGC	CACCACCTCA	CCCCGCCACC	CCCCGCCGCT	TTAACCGCAG	350
GGAACTCTGG	CGTAAGAGCT	TTGTGTGACC	AGGGCAGGGC	TGGTTAGAAG	400
TGCTCAGGGC	CCAGACTCAG	CCAGGAATCA	AGGTCAGGAC	CCCAAGAGGG	450
GACTGAGGGC	AACCCACCCC	CTACCCTCAC	TACCAATCCC	ATCCCCCAAC	500
ACCAACCCCA	CCCCCATCCC	TCAAACACCA	ACCCCACCCC	CAAACCCCAT	550
TCCCATCTCC	TCCCCCACCA	CCATCCTGGC	AGAATCCGGC	TTTGCCCCTG	600
CAATCAACCC	ACGGAAGCTC	CGGGAATGGC	GGCCAAGCAC	GCGGATCCTG	650
	GTACGGCTAA				700
	ATGCAGAGGA				750
TCCTTAGGGG	ACCCAGCATG	CCAGGACAGG	GGGCCCACTG	TACCCCTGTC	800
TCAAACTGAG	CCACCTTTTC	ATTCAGCCGA	GGGAATCCTA	GGGATGCAGA	850
	GGGGTTGGGG				900
	ACTGAGGGGA				950
	CCTGGGCACA				1000
	ACAGAGAGTT				1050
	GGGAGGAATC				1100
	ACTCCCCATA			i e	1150
	TAAATTGTTC				1200
	CAATCTCATT				1250
	AGGTGTTGGT				1300
	TGAGAAAGGG				1350
	CCATCATAAC				1400
	CGTGGGGTAA				1450
	GGAGTTGATG				1500
	CTCTGGTCGA				1550
	AGAGCCTGAG				1600
	GGCCCCATAG				1650
	CAGGGCTGTC				1700
	GAAGGGGAGG				1750
	GGTCTCAGGC				1800
	CCAGGACACC				1850
	GAGGACCTGG				1900
TCTCCTTCTG	TACCATATCA	GGGATGTGAG	TTCTTGACAT	GAGAGATTCT	1950

CAAGCCAGCA AAAG	GGTGGG A'	TTAGGCCC:	r acaagga	GAA	AGGTGAGGGC	2000
CCTGAGTGAG CACA	GAGGGG A	CCCTCCAC	CAAGTAG	AGT	GGGGACCTCA	2050
CGGAGTCTGG CCAA						2100
GCAGTCTGCA CACT						2150
TCCAGGAACC AGGC						
						2200
AGAGCAGAGG GGAC						2250
CACACCAAGG GCCC						2300
GCCTCACCCT CCCT	'ATTCTC A	GTCCTGCAC	G CCTGAGC	ATG	TGCTGGCCGG	2350
CTGTACCCTG AGGT	GCCCTC C	CACTTCCT	CTTCAGG	TTC	TGAGGGGGAC	2400
AGGCTGACAA GTAG	GACCCG A	GGCACTGG	A GGAGCAT	TGA	AGGAGAAGAT	2450
CTGTAAGTAA GCCT						2500
TAAGGCCTCA CACA						2550
CCCAGCTCCT GCCC					=	2597
ATG CCT CTT GAG						2639
					GTG GGT GCG	2681
CAG GCT CCT GCT	ACT GAG	GAG CAG	CAG ACC	GCT	TCT TCC TCT	2723
TCT ACT CTA GTG	GAA GTT	ACC CTG	GGG GAG	GTG	CCT GCT GCC	2765
GAC TCA CCG AGT	CCT CCC	CAC AGT	CCT CAG	GGA	GCC TCC AGC	2807
TTC TCG ACT ACC	ATC AAC	TAC ACT	CTT TGG	AGA	CAA TCC GAT	2849
	AAC CAA					2891
CCC GAC CTG GAG					AGT AGG AAG	2933
	GTT CAT		CTC CTC		TAT CGA GCC	
						2975
					AGT GTC CTC	3017
	GAC TTC				AGC AAA GCC	3059
TCC GAG TAC TTG	CAG CTG	GTC TTT	GGC ATC	GAG	GTG GTG GAA	3101
GTG GTC CCC ATC	AGC CAC	TTG TAC	ATC CTT	GTC	ACC TGC CTG	3143
GGC CTC TCC TAC	GAT GGC	CTG CTG	GGC GAC	AAT	CAG GTC ATG	3185
CCC AAG ACA GGC	CTC CTG	ATA ATC	GTC CTG	GCC	ATA ATC GCA	3227
ATA GAG GGC GAC		CCT GAG			TGG GAG GAG	3269
	GAG GTG		GGG AGG		GAC AGT GTC	3311
	AGG AAG				CTG GTG CAG	3353
					AGT GAT CCT	
						3395
GCA TGC TAC GAG					CTC ATT GAA	3437
					AAG ATC GGT	3479
			CCC CTG	CAT	GAA CGG GCT	3521
TTG AGA GAG GGA						3542
GTCTCAGCAC ATGT	TGCAGC C	AGGGCCAGT	r gggagge	GGT	CTGGGCCAGT	3592
GCACCTTCCA GGGC	CCCATC C	ATTAGCTTO	CACTGCC	TCG	TGTGATATGA	3642
GGCCCATTCC TGCC	TCTTTG A	AGAGAGCAC	TCAGCAT	TCT	TAGCAGTGAG	3692
TTTCTGTTCT GTTG						3742
TTGTTCAAAT GTTC						3792
GTTTATGAAT GACA						3842
TAAGAGTCCT GTTT						3892
TTGTCACATA ATAA						3942
AATTAGCAGT AAAA						3992
TGCCTTATAC CTCA						4042
TGCTTCTTTG AGAA	TGCAAA A	GAAATTAAA	A TCTGAAT	'AAA'	TTCTTCCTGT	4092
TCACTGGCTC ATTT						4142
CCTGGTAGTA GTGG						4157
CCICCIMOIA CICC	_					- <b></b> ·

- (2) INFORMATION FOR SEQUENCE ID NO: 10:
   (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 662 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: single
   (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-21 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

GGATCCCCAT	GGATCCAGGA	AGAATCCAGT	TCCACCCCTG	CTGTGAACCC	50
AGGGAAGTCA	CGGGGCCGGA	TGTGACGCCA	CTGACTTGCG	CGTTGGAGGT	100
CAGAGAACAG	CGAGATTCTC	GCCCTGAGCA	ACGGCCTGAC	GTCGGCGGAG	150
<b>GGAAG</b> CAGGC	GCAGGCTCCG	TGAGGAGGCA	AGGTAAGATG	CCGAGGGAGG	200
ACTGAGGCGG	GCCTCACCCC	AGACAGAGGG	CCCCCAATAA	TCCAGCGCTG	250
CCTCTGCTGC	CAGGCCTGGA	CCACCCTGCA	GGGGAAGACT	TCTCAGGCTC	300
<b>AGTCGCC</b> ACC	ACCTCACCCC	GCCACCCCCC	GCCGCTTTAA	CCGCAGGGAA	350
CTCTGGTGTA	AGAGCTTTGT	GTGACCAGGG	CAGGGCTGGT	TAGAAGTGCT	400
CAGGGCCCAG	ACTCAGCCAG	GAATCAAGGT	CAGGACCCCA	AGAGGGGACT	450
GAGGGTAACC	CCCCCGCACC	CCCACCACCA	TTCCCATCCC	CCAACACCAA	500
CCCCACCCCC	ATCCCCCAAC	ACCAAACCCA	CCACCATCGC	TCAAACATCA	550
ACGGCACCCC	CAAACCCCGA	TTCCCATCCC	CACCCATCCT	GGCAGAATCG	600
GAGCTTTGCC	CCTGCAATCA	ACCCACGGAA	GCTCCGGGAA	TGGCGGCCAA	650
GCACGCGGAT	CC				662

- (2) INFORMATION FOR SEQUENCE ID NO: 11:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1640 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA to mRNA
  - (ix) FEATURE:
    - (A) NAME/KEY: cDNA MAGE-3
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

GCCGCGAGGG AAGCCGGCCC AGGCTCGGTG AGGAGGCAAG GTTCTGAGGG	50
GACAGGCTGA CCTGGAGGAC CAGAGGCCCC CGGAGGAGCA CTGAAGGAGA	100
AGATCTGCCA GTGGGTCTCC ATTGCCCAGC TCCTGCCCAC ACTCCCGCCT	150
GTTGCCCTGA CCAGAGTCAT C	171
ATG CCT CTT GAG CAG AGG AGT CAG CAC TGC AAG CCT GAA GAA	213
GGC CTT GAG GCC CGA GGA GAG GCC CTG GGC CTG GTG GGT GCG	255
CAG GCT CCT GCT ACT GAG GAG CAG GAG GCT GCC TCC TCT	297
TCT ACT CTA GTT GAA GTC ACC CTG GGG GAG GTG CCT GCT GCC	339
GAG TCA CCA GAT CCT CCC CAG AGT CCT CAG GGA GCC TCC AGC	381
CTC CCC ACT ACC ATG AAC TAC CCT CTC TGG AGC CAA TCC TAT	423

GAG	GAC	TCC	AGC	AAC	CAA	GAA	GAG	GAG	GGG	CCA	AGC	ACC	TTC	465
CCT	GAC	CTG	GAG	TCC	GAG	TTC	CAA	GCA	GCA	CTC	AGT	AGG	AAG	507
GTG	GCC	GAG	TTG	GTT	CAT	TTT	CTG	CTC	CTC	AAG	TAT	CGA	GCC	549
AGG	GAG	CCG	GTC	ACA	AAG	GCA	GAA	ATG	CTG	GGG	AGT	GTC	GTC	591
GGA	AAT	$\mathbb{T} G G$	CAG	TAT	TTC	TTT	CCT	GTG	ATC	TTC	AGC	AAA	GCT	633
TCC	AGT	TCC	TTG	CAG	CTG	GTC	TTT	GGC	ATC	GAG	CTG	ATG	GAA	675
GTG	GAC	CCC	ATC	GGC	CAC	TTG	TAC	ATC	TTT	GCC	ACC	TGC	CTG	717
GGC	CTC	TCC	TAC	GAT	GGC	CTG	CTG	GGT	GAC	AAT	CAG	ATC	ATG	759
CCC	AAG	GCA	GGC	CTC	CTG	ATA	ATC	GTC	CTG	GCC	ATA	ATC	GCA	801
AGA	GAG	GGC	GAC	TGT	GCC	CCT	GAG	GAG	AAA	ATC	TGG	GAG	GAG	843
CTG	AGT	$\mathtt{GT}\mathbf{G}$	TTA	GAG	GTG	TTT	GAG	GGG	AGG	GAA	GAC	AGT	ATG	885
TTG	GGG	GAT	CCC	AAG	AAG	CTG	CTC	ACC	CAA	CAT	TTC	GTG	CAG	927
GAA	AAC	TAC	CTG	GAG	TAC	CGG	CAG	GTC	CCC	GGC	AGT	GAT	CCT	969
GCA	TGT	TAT	GAA	TTC	CTG	TGG	GGT	CCA	AGG	GCC	CTC	GTT	GAA	1011
ACC	AGC	$\mathbb{T}A\mathbf{T}$	GTG	AAA	GTC	CTG	CAC	CAT	ATG	GTA	AAG	ATC	AGT	1053
GGA	GGA	CCT	CAC	ATT	TCC	TAC	CCA	CCC	CTG	CAT	GAG	TGG	GTT	1095
			GGG											1116
GTCT	GAGC	CAC (	GAGT:	rgca(	GC CA	AGGGG	CCAGI	GGC	GAGG	GGT	CTG	GCC	AGT	1166
GCAC	CCTTC	CCG (	GGGC	CGCAT	rc co	CTTAC	STTTC	CAC	CTGC	CTCC	TGT	GACG"	ľGA	1216
GGCC	CATI	CT :	rcac:	rctt1	rg aa	AGCGA	AGCAG	TC	AGCA?	TCT	TAG	ragt(	GGG	1266
TTTC	TGTT	CT (	GTTGC	GATGA	AC TI	TGAC	SATTA	A TTC	CTTTC	TTT	CCT	STTGO	GAG	1316
TTGT	TCAA	AT (	GTTC	CTTTT	ra ac	CGGAT	rggti	GAZ	ATGAC	CGT	CAG	CATC	CAG	1366
_			GACAC											1416
TAAC	SAGTO	CTT (	GttTT	CTTAC	CT CF	TAA	ſgGG₽	AA A	rcca?	TCC	ATT	rtgt(	3AA	1466
TTGT	GAC	ATA A	CAATA	<b>FAGC</b>	AG TO	GTA	\AAG'I	TA	rtgci	AATT	AAT	rgtg <i>i</i>	AGC	1516
GAAI	TAGO	CAA :	raac <i>i</i>	ATACA	AT GA	AGATA	AACTO	AAC	GAAAT	CAA	AAG	ATAGT	ГТG	1566
			rgta(				rctgi	AA	AATTA	AAAC	AAA	CATGO	CAA	1616
ACCA	<b>I</b> GGA	TT (	CCTTC	GACT'	rc Ti	ΓTG								1640.

- (2) INFORMATION FOR SEQUENCE ID NO: 12:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 943 base pairs
    - (B) TYPE: nucleic acid (C) STRANDEDNESS: single

    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-31 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

GGATCCTCCA	CCCCAGTAGA	GTGGGGACCT	CACAGAGTCT	GGCCAACCCT	50
CCTGACAGTT	CTGGGAATCC	GTGGCTGCGT	TTGCTGTCTG	CACATTGGGG	100
GCCCGTGGAT	TCCTCTCCCA	GGAATCAGGA	GCTCCAGGAA	CAAGGCAGTG	150
	CTGAGGCAGT				200
<b>GATAG</b> TGCCA	ACGGTGAAGG	TTTGCCTTGG	ATTCAAACCA	AGGGCCCCAC	250
	ACACATGGAC				300
TTCAGTCCTG	CAGCCTCAGC	ATGCGCTGGC	CGGATGTACC	CTGAGGTGCC	350
CTCTCACTTC	CTCCTTCAGG	TTCTGAGGGG	ACAGGCTGAC	CTGGAGGACC	400

AGA	<b>GCC</b> (	CCC (	GGAG	GAGC!	AC TO	GAAG	GAGA	A GAT	rctg:	raag	TAA	GCCT:	ΓTG	450
TTA	GAGC	CTC (	CAAG	STTC	CA T	rcag:	CACTO	CAG	CTGA	GTC	TCT	CACA	rgc	500
TCC	CTCT	CTC (	CCCA	GCC <i>I</i>	AG TO	GGT	CTCCA	YTT	GCCC <i>I</i>	AGCT	CCT	3CCC2	ACA	550
CTC	CCGC	CTG :	rtgc	CCTGA	AC CA	AGAG:	CATO	2						580
ATG	CCT	CTT	GAG	CAG	AGG	AGT	CAG	CAC	TGC	AAG	CCT	GAA	GAA	622
GGC	CTT	GAG	GCC	CGA	GGA	GAg	GCC	CTG	GGC	CTG	GTG	GGT	GCG	664
CAG	GCT	CCT	GCT	ACT	GAG	GAG	CAG	GAG	GCT	GCC	TCC	TCC	TCT	706
TCT	AGT	GTA	GTT	GAA	GTC	ACC	CTG	GGG	GAG	GTG	CCT	GCT	GCC	748
GAG	TCA	CCA	GAT	CCT	CCC	CAG	AGT	CCT	CAG	GGA	GCC	TCC	AGC	790
CTC	CCC	ACT	ACC	ATG	AAC	TAC	CCT	CTC	TGG	AGC	CAA	TCC	TAT	832
GAG	GAC	TCC	AGC	AAC	CAA	GAA	GAG	GAG	GGG	CCA	AGC	ACC	TTC	874
CCT	GAC	CTG	GAG	TCT	GAG	TTC	CAA	GCA	GCA	CTC	AGT	AGG	<b>AA</b> G	916
GTG	GCC	AAG	TTG	GTT	CAT	TTT	CTG	CTC						943

- (2) INFORMATION FOR SEQUENCE ID NO: 13:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2531 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: single

    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-4 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

GGATCCAGGC CCTGCCTGGA GA	AAATGTGAG GGCCCTGAGT	GAACACAGTG	50
GGGATCATCC ACTCCATGAG AC	STGGGGACC TCACAGAGTC	CAGCCTACCC	100
TCTTGATGGC ACTGAGGGAC CO	GGGGCTGTG CTTACAGTCT	GCACCCTAAG	150
GGCCCATGGA TTCCTCTCT AC	GGAGCTCCA GGAACAAGGC	AGTGAGGCCT	200
TGGTCTGAGA CAGTGTCCTC AC	GGTTACAGA GCAGAGGATG	CACAGGCTGT	250
GCCAGCAGTG AATGTTTGCC CT	rgaatgcac acc <mark>aa</mark> gg <mark>gc</mark> c	CCACCTGCCA	300
CAAGACACAT AGGACTCCAA AG	BAGTCTGGC CTCACCTCCC	TACCATCAAT	350
CCTGCAGAAT CGACCTCTGC TO	GCCGGCTA TACCCTGAGG	TGCTCTCA	400
CTTCCTCCTT CAGGTTCTGA GO	CAGACAGGC CAACCGGAGA	CAGGATTCCC	450
TGGAGGCCAC AGAGGAGCAC CA	AAGGAGAAG ATCTGTAAGT	AAGCCTTTGT	500
TAGAGCCTCT AAGATTTGGT TO			550
TCTCCGTAGG CCTGTGGGTC CC	CCATTGCCC AGCTTTTGCC	TGCACTCTTG	600
CCTGCTGCCC TGACCAGAGT CA	ATC		624
ATG TCT TCT GAG CAG AAG	AGT CAG CAC TGC AAG	CCT GAG GAA	666
GGC GTT GAG GCC CAA GAA	GAG GCC CTG GGC CTG	GTG GGT GCA	708
CAG GCT CCT ACT ACT GAG	GAG CAG GAG GCT GCT		750
TCC TCT CCT CTG GTC CCT	GGC ACC CTG GAG GAA		792
GCT GAG TCA GCA GGT CCT	CCC CAG AGT CCT CAG		834
GCC TTA CCC ACT ACC ATC	AGC TTC ACT TGC TGG	AGG CAA CCC	876
AAT GAG GGT TCC AGC AGC	CAA GAA GAG GAG GGG	CCA AGC ACC	918
TCG CCT GAC GCA GAG TCC	TTG TTC CGA GAA GCA		960
AAG GTG GAT GAG TTG GCT	CAT TTT CTG CTC CGC		1002
GCC AAG GAG CTG GTC ACA	AAG GCA GAA ATG CTG	GAG AGA GTC	1044

ATC AAA	AAT	TAC	AAG	CGC	TGC	TTT	CCT	GTG	ATC	TTC	GGC	AAA	1086
GCC TCC	GAG	TCC	CTG	AAG	ATG	ATC	TTT	GGC	ATT	GAC	GTG	AAG	1128
GAA GTG	GAC	CCC	GCC	AGC	AAC	ACC	TAC	ACC	CTT	GTC	ACC	TGC	1170
CTG GGC	CTT	TCC	TAT	GAT	GGC	CTG	CTG	GGT	AAT	AAT	CAG	ATC	1212
TTT CCC	AAG	ACA	GGC	CTT	CTG			GTC	CTG	GGC	ACA	ATT	1254
GCA ATG	GAG	GGC	GAC	AGC	GCC	TCT	GAG	GAG	GAA	ATC	TGG	GAG	1296
GAG CTG	GGT	GTG	ATG	GGG	GTG	TAT	GAT	GGG	AGG	GAG	CAC	ACT	1338
GTC TAT	GGG	GAG											1380
CAG GAA	AAC	TAC	CTG		TAC								1422
CCT GCG	CGC	TAT			CTG						-	-	1464
GAA ACC	AGC				GTC								1506
AAT GCA	AGA	GTT	CGC	ATT	GCC	TAC	CCA	TCC	CTG	CGT	GAA	GCA	1548
GCT TTG	TTA	GAG	GAG	GAA	GAG	GGA	GTC	TGA					1578
GCATGAGT	TTG (	CAGC	CAGG	GC TO	STGG	GGAAG	GGG	GCAG	GCT	GGG	CCAG	rgc	1628
ATCTAACA	AGC (	CCTGI	rgca(	GC A	GCTT(	CCCTI	GCC	CTCGT	rgta	ACA:	rgag(	3CC	1678
CATTCTTC													1728
TCTATTT	rgt :	rgga'	[GAC]	rt G	GAGAI	ratt'	CTC	CTGTT	rtcc	TTTT	raca <i>i</i>	TTI	1778
GTTGAAAT	rgt :	rcct1	TTA	AT GO	GATGO	STTGA	TA A	raaci	rtca	GCA.	rcca?	AGT	1828
TTATGAAT													1878
AGTCTTGT	TTT	CATTT	TCAC	GA T	rggg <i>i</i>	YAATO	CGI	rtct <i>i</i>	TTTI	TGT	GAAT:	ГТG	1928
GGACATAA													1978
GAAATAGG	STG 1	AGATA	TAA!	ra az	AAGAT	racti	'AA'	rtccc	CGCC	TTA	rgcc:	ГСА	2028
GTCTATTC	CTG :	TAAA7	$\mathbf{ATTT}I$	AA AA	ATA	rata1	GC	ATACO	CTGG	ATT	CCT.	rgg	2078
CTTCGTGA													2128
ACTGGCTC													2178
AGGATTAG													2228
GGGTATTA													2278
CCTCTAAC													2328
GAGAGTGG													2378
AACTGCAT	TTT	rcttc	CTGAC	GG GI	ATCTO	SATTO	TA	ATGAZ	AGCT	TGG"	rggg:	rcc	2428
<b>AGGG</b> CCAC													2478
TCTGAGCA	AGT :	rcc <b>t</b> i	r <b>T</b> GTC	GA CA	AATGO	SATGA	A ACA	AGAGA	AGGA	GCC.	CTA	CCT	2528
GGG													2531

- (2) INFORMATION FOR SEQUENCE ID NO: 14:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2531 base pairs
    - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS:single
    (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-41 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GGATCCAGGC	CCTGCCTGGA	GAAATGTGAG	GGCCCTGAGT	GAACACAGTG	50
GGGATCATCC	ACTCCATGAG	AGTGGGGACC	TCACAGAGTC	CAGCCTACCC	100
TCTTGATGGC	ACTGAGGGAC	CGGGGGCTGTG	CTTACAGTCT	GCACCCTAAG	150

GGCCCATGGA TTCCTCTCT AGGAGCTCCA GGAACATGGTCTGAGA CAGTGTCCTC AGGTTACAGA GCAGAG	AAGGC AGTGAGGCCT 200
TGGTCTGAGA CAGTGTCCTC AGGTTACAGA GCAGAG	GGATG CACAGGCTGT 250
GCCAGCAGTG AATGTTTGCC CTGAATGCAC ACCAAG	GGGCC CCACCTGCCA 300
CAAGACACAT AGGACTCCAA AGAGTCTGGC CTCAC	CTCCC TACCATCAAT 350
CCTGCAGAAT CGACCTCTGC TGGCCGGCTA TACCC	TGAGG TGCTCTCTCA 400
CTTCCTCCTT CAGGTTCTGA GCAGACAGGC CAACCC TGGAGGCCAC AGAGGAGCAC CAAGGAGAAG ATCTG TAGAGCCTCT AAGATTTGGT TCTCAGCTGA GGTCTC	GGAGA CAGGATTCCC 450
TGGAGGCCAC AGAGGAGCAC CAAGGAGAAG ATCTG	TAAGT AAGCCTTTGT 500
TAGAGCCTCT AAGATTTGGT TCTCAGCTGA GGTCTC	CTCAC ATGCTCCCTC 550
TCTCCGTAGG CCTGTGGGTC CCCATTGCCC AGCTT	TTGCC TGCACTCTTG 600
CCTGCTGCCC TGAGCAGAGT CATC  ATG TCT TCT GAG CAG AAG AGT CAG CAC TGG GGC GTT GAG GCC CAA GAA GAG GCC CTG GGC CAG GCT CCT ACT ACT GAG GAG CAG GAG GCC TCC TCT CCT CTG GTC CCT GGC ACC CTG GAG GCT GAG TCA GCA GGT CCT CCC CAG AGT CCC GCC TTA CCC ACT ACC ATC AGC TTC ACT TGG AAT GAG GGT TCC AGC AGC CAA GAA GAG GAG TCG CCT GAC GCA GAG TCC TTG TTC CGA GAA AAG GTG GAT GAG TTG GCT CAT TTT CTG CTC GCC AAG GAG GAG CTG GTC ACA AAG GCA GAA ATC	624
ATG TCT TCT GAG CAG AAG AGT CAG CAC TGG	C AAG CCT GAG GAA 666
GGC GTT GAG GCC CAA GAA GAG GCC CTG GGC	C CTG GTG GGT GCG 708
CAG GCT CCT ACT ACT GAG GAG CAG GAG GCT	T GCT GTC TCC TCC 750
TCC TCT CCT CTG GTC CCT GGC ACC CTG GAG	G GAA GTG CCT GCT 792
GCT GAG TCA GCA GGT CCT CCC CAG AGT CCT	T CAG GGA GCC TCT 834
GCC TTA CCC ACT ACC ATC AGC TTC ACT TGG	C TGG AGG CAA CCC 876
AAT GAG GGT TCC AGC AGC CAA GAA GAG GAG	G GGG CCA AGC ACC 918
TCG CCT GAC GCA GAG TCC TTG TTC CGA GAZ	A GCA CTC AGT AAC 960
AAG GTG GAT GAG TTG GCT CAT TTT CTG CTG	C CGC AAG TAT CGA 1002
GCC AAG GAG CTG GTC ACA AAG GCA GAA ATC AAA AAT TAC AAG CGC TGC TTT CCT GTC	G CTG GAG AGA GTC 1044
ATC AAA AAT TAC AAG CGC TGC TTT CCT GTG	G ATC TTC GGC AAA 1086
- GCC TCC GAG TCC CTG AAG ATG ATC TTT GG	C A'I"I' GAC G'I'G AAG 1128
CAA CTC CAC CCC ACC ACC AAC ACC TAC ACC	C $C$ $T$
- כדב בבר כידי ידכי ידאי באיד בבר כידב כידב בכי	ጥ አልጥ አልጥ ሮልር ልጥሮ 1919
TTT CCC AAG ACA GGC CTT CTG ATA ATC GTG	C CTG GGC ACA ATT 1254
TTT CCC AAG ACA GGC CTT CTG ATA ATC GTC GCA ATG GAG GGC GAC AGC GCC TCT GAG GAC	G GAA ATC TGG GAG 1296
GAG CTG GGT GTG ATG GGG GTG TAT GAT GGG	G AGG GAG CAC ACT 1338
GAA ATG GAG GGC GAC AGC GCC TCT GAG GAC GAG CTG GGT GTG ATG GGG GTG TAT GAT GGG GTC TAT GGG GAG CCC AGG AAA CTG CTC ACC CAG GAA AAC TAC CTG GAG TAC CGG CAG GTA CCT GCG CGC TAT GAG TTC CTG TGG GGT CCA GAA ACC AGC TAT GTG AAA GTC CTG GAG CAC AAT GCA AGA GTT CGC ATT GCC TAC CCA TCC GCT TTG TTA GAG GAG GAA GAG GGA GTC TGA	C CAA GAT TGG GTG 1380
CAG GAA AAC TAC CTG GAG TAC CGG CAG GTA	A CCC GGC AGT AAT 1422
CCT GCG CGC TAT GAG TTC CTG TGG GGT CCA	A AGG GCT CTG GCT 1464
GAA ACC AGC TAT GTG AAA GTC CTG GAG CAT	T GTG GTC AGG GTC 1506
AAT GCA AGA GTT CGC ATT GCC TAC CCA TCC	C CTG CGT GAA GCA 1548
GCT TTG TTA GAG GAG GAA GAG GGA GTC TGA	A 1578
GCATGAGTTG CAGCCAGGGC TGTGGGGAAG GGGCAG	GGGCT GGGCCAGTGC 1628
GCT TTG TTA GAG GAG GAA GAG GGA GTC TGA GCATGAGTTG CAGCCAGGGC TGTGGGGAAG GGGCAG ATCTAACAGC CCTGTGCAGC AGCTTCCCTT GCCTCC CATTCTTCAC TCTGTTTGAA GAAAATAGTC AGTGTT TCTATTTTGT TGGATGACTT GGAGATTTAT CTCTGT	GTGTA ACATGAGGCC 1678
CATTCTTCAC TCTGTTTGAA GAAAATAGTC AGTGTT	TCTTA GTAGTGGGTT 1728
TCTATTTTGT TGGATGACTT GGAGATTTAT CTCTG	TTTCC TTTTACAATT 1778
GIIGAAAIGI ICCIIIIAAI GGAIGGIIGA AIIAA	CIICA GCAICCAAGI 1020
TTATGAATCG TAGTTAACGT ATATTGCTGT TAATA	
AGTCTTGTTT TTTATTCAGA TTGGGAAATC CGTTCT	
GGACATAATA ACAGCAGTGG AGTAAGTATT TAGAAG	
GAAATAGGTG AGATAAATTA AAAGATACTT AATTCO	
GTCTATTCTG TAAAATTTAA AAATATATAT GCATAG	
CTTCGTGAAT GTAAGAGAAA TTAAATCTGA ATAAA	
ACTGGCTCAT TTCTTCTCTA TGCACTGAGC ATCTG	
AGGATTAGTA GTGGAGATAC TAGGGTAAGC CAGACA	
GGGTATTAAG AGTCTAGGAG CGCGGTCATA TAATTA	
CCTCTAAGAT GTAGGGGAAA AGTAACGAGT GTGGG	
GAGAGTGGTC GGGTGTAAAT TCCCTGTGTG GGGCC	
AACTCCATTT TCTTCTGAGG GATCTGATTC TAATGA	
AGGGCCAGAT TCTCAGAGGG AGAGGGAAAA GCCCAG	
TCTGAGCGGT TCCTTTGTGA CAATGGATGA ACAGAG	GAGGA GCCTCTACCT 2528

GGG 2531

- (2) INFORMATION FOR SEQUENCE ID NO: 15:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1068 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA to mRNA
  - (ix) FEATURE:
    - (A) NAME/KEY: cDNA MAGE-4
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

G	GGG	CCA	AGC	ACC	TCG	CCT	GAC	GCA	GAG	TCC	TTG	TTC	CGA	40
GAA	GCA	CTC	AGT	AAC	AAG	GTG	GAT	GAG	TTG	GCT	CAT	TTT	CTG	82
CTC	CGC	AAG	TAT	CGA	GCC	AAG	GAG	CTG	GTC	ACA	AAG	GCA	GAA	124
ATG	CTG	GAG	AGA	GTC	ATC	AAA	AAT	TAC	AAG	CGC	TGC	TTT	CCT	166
GTG	ATC	TTC	GGC	AAA	GCC	TCC	GAG	TCC	CTG	AAG	ATG	ATC	TTT	208
GGC	ATT	GAC	GTG	AAG	GAA	GTG	GAC	CCC	GCC	AGC	AAC	ACC	TAC	250
ACC	CTT	GTC	ACC	TGC	CTG	GGC	CTT	TCC	TAT	GAT	GGC	CTG	CTG	292
GGT	AAT	AAT	CAG	ATC	TTT	CCC	AAG	ACA	GGC	CTT	CTG	ATA	ATC	334
GTC	CTG	GGC	ACA	ATT	GCA	ATG	GAG	GGC	GAC	AGC	GCC	TCT	GAG	376
GAG	GAA	ATC	TGG	GAG	GAG	CTG	GGT	GTG	ATG	GGG	GTG	TAT	GAT	418
GGG	AGG	GAG	CAC	ACT	GTC	TAT	GGG	GAG	CCC	AGG	AAA	CTG	CTC	460
ACC	CAA	GAT	TGG	GTG	CAG	GAA	AAC	TAC	CTG	GAG	TAC	CGG	CAG	502
GTA	CCC	GGC	AGT	AAT	CCT	GCG	CGC	TAT	GAG	TTC	CTG	TGG	GGT	544
CCA	AGG	GCT	CTG	GCT	GAA	ACC	AGC	TAT	GTG	AAA	GTC	CTG	GAG	586
CAT	GTG	GTC	AGG	GTC	AAT	GCA	AGA	GTT	CGC	ATT	GCC	TAC	CCA	628
TCC	CTG	CGT	GAA	GCA	GCT	TTG	TTA	GAG	GAG	GAA	GAG	GGA	GTC	670
TGA	CATO	GAG :	rtgcz	AGCCA	AG GC	GCTGT	rgggc	S AAC	GGGG	CAGG	GCT	GGCC	CAG	720
TGC	ATCTA	AAC A	AGCC(	CTGTC	SC AC	GCAGC	CTTCC	CT	rgcc1	rcgt	GTA	ACATO	3AG	770
GCC	CATTO	CTT (	CACT	CTGTT	T GA	AAGAZ	LAAT	A GTO	CAGTO	FTTC	TTAC	TAG	rgg	820
GTTT	CTAI	TTT	CGTTC	GATO	BA CI	rtgg <i>f</i>	AGATT	CAT T	CTCI	rgtt	TCCT	TTTTT	ACA	870
ATTO	STTGA	AAA :	CGTTC	CCTTI	T A	ATGGA	ATGGT	r TGA	ATTA	AACT	TCAC	CAT	CCA	920
AGT	TAT	C AAE	CGTA	AGTTA	AA CC	TATE	ATTGO	C TGT	CAAT	ATA	GTTT	[AGG/	AGT	970
AAG	AGTCI	rtg 1	CTTTT	TAT	C AC	SATTO	GGAZ	YA A	CCGTT	CTA	TTTT	rgtg <i>i</i>	TA	1020
TTG	GACA	ATA A	AATA	CAGC	G TO	GAG1	[AAG]	TA T	TAG	AAGT	GTG	ATTO	2	1068

- (2) INFORMATION FOR SEQUENCE ID NO: 16:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2226 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-5 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

	~- ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
GGATCCAGGC CTTGCCAGGA GAAAGGTGAG GGCCCTGTGT	
GGGACCATTC ACCCCAAGAG GGTGGAGACC TCACAGATTC	
TCCTGTTAGC ACTGGGGGCC TGAGGCTGTG CTTGCAGTCT	GCACCCTGAG 150
GGCCCATGCA TTCCTCTTCC AGGAGCTCCA GGAAACAGAC	ACTGAGGCCT 200
TGGTCTGAGG CCGTGCCCTC AGGTCACAGA GCAGAGGAGA	TGCAGACGTC 250
TAGTGCCAGC AGTGAACGTT TGCCTTGAAT GCACACTAAT	
GCCCCAGAAC ATATGGGACT CCAGAGCACC TGGCCTCACC	
TCAGTCCTGC AGAATCAGCC TCTGCTTGCT TGTGTACCCT	
CTCACTTTTT CCTTCAGGTT CTCAGGGGAC AGGCTGACCA	
GAAGCTCCAG AGGATCCCCA GGAGGCCCTA GAGGAGCACC	
ATCTGTAAGT AAGCCTTTGT TAGAGCCTCC AAGGTTCAGT	
GGCTTCTCAC ATGCTCCCTC TCTCTCCAGG CCAGTGGGTC	
AGCTCCTGCC CACACTCCTG CCTGTTGCGG TGACCAGAGT	
ATG TCT CTT GAG CAG AAG AGT CAG CAC TGC AAG	CCT GAG GAA 686
CTC CTC TGG TCC CAG GCA CCC TGG GGG AGG TGC	CTG CTG CTG 728
GGT CAC CAG GTC CTC TCA AGA GTC CTC AGG GAG	CCT CCG CCA 770
TCC CCA CTG CCA TCG ATT TCA CTC TAT GGA GGC	AAT CCA TTA 812
AGG GCT CCA GCA ACC AAG AAG AGG AGG GGC CAA	
CTG ACC CAG AGT CTG TGT TCC GAG CAG CAC TCA	
TGG CTG ACT TGA	908
TTCATTTTCT GCTCCTCAAG TATTAAGTCA AGGAGCTGGT	
GAAATGCTGG AGAGCGTCAT CAAAAATTAC AAGCGCTGCT	
CTTCGGCAAA GCCTCCGAGT CCTTGCAGCT GGTCTTTGGC	
AGGAAGCGGA CCCCACCAGC AACACCTACA CCCTTGTCAC	
CTCCTATGAT GGCCTGCTGG TTGATAATAA TCAGATCATG	
GCCTCCTGAT AATCGTCTTG GGCATGATTG CAATGGAGGG	
CCTGAGGAGA AAATCTGGGA GGAGCTGAGT GTGATGAAGG	
GAGGGAGCAC AGTGTCTGTG GGGAGCCCAG GAAGCTGCTC	
TGGTGCAGGA AAACTACCTG GAGTACCGGC AGGTGCCCAG	
ATATGCTATG AGTTACTGTG GGGTCCAAGG GCACTCGCTG	CTTGAAAGTA 1408
CTGGAGCACG TGGTCAGGGT CAATGCAAGA GTTCTCATTT	CCTACCCATC 1458
CCTGCGTGAA GCAGCTTTGA GAGAGGAGGA AGAGGGAGTC	TGAGCATGAG 1508
CTGCAGCCAG GGCCACTGCG AGGGGGGCTG GGCCAGTGCA	
CTCCGTCCAG TAGTTTCCCC TGCCTTAATG TGACATGAGG	
TCTCTTTGAA GAGAGCAGTC AACATTCTTA GTAGTGGGTT	
TGGATGACTT TGAGATTTGT CTTTGTTTCC TTTTGGAATT	
TTCTTTTAAT GGGTGGTTGA ATGAACTTCA GCATTCAAAT	
CAGTAGTCAC ACATAGTGCT GTTTATATAG TTTAGGAGTA	
TTTTTATTCA GATTGGGAAA TCCATTCCAT TTTGTGAATT	
TACAGCAGTG GAATAAGTAT TCATTTAGAA ATGTGAATGA	
TGATGACATA AAGAAATTAA AAGATATTTA ATTCTTGCTT	
TATTCGGTAA AATTTTTTTT AAAAAATGTG CATACCTGGA	
TTCTTTGAGA ATGTAAGACA AATTAAATCT GAATAAATCA	
TCACTGGCTC ATTTATTCTC TATGCACTGA GCATTTGCTC	TGTGGAAGGC 2108
CCTGGGTTAA TAGTGGAGAT GCTAAGGTAA GCCAGACTCA	CCCCTACCCA 2158
CAGGGTAGTA AAGTCTAGGA GCAGCAGTCA TATAATTAAG	GTGGAGAGAT 2208
GCCCTCTAAG ATGTAGAG	2226

- (2) INFORMATION FOR SEQUENCE ID NO: 17:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2305 base pairs
    - (B) TYPE; nucleic acid
    - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-51 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

GGATCCAGGC CTTGCCAGGA GAAAGGTGAG GGCCCTGTGT GAGCA	
GGGACCATTC ACCCCAAGAG GGTGGAGACC TCACAGATTC CAGCC	
TCCTGTTAGC ACTGGGGGCC TGAGGCTGTG CTTGCAGTCT GCACC	
GGCCCATGCA TTCCTCTTCC AGGAGCTCCA GGAAACAGAC ACTGA	
TGGTCTGAGG CCGTGCCCTC AGGTCACAGA GCAGAGGAGA TGCAC	
TAGTGCCAGC AGTGAACGTT TGCCTTGAAT GCACACTAAT GGCCC	
GCCCCAGAAC ATATGGGACT CCAGAGCACC TGGCCTCACC CTCTC	
TCAGTCCTGC AGAATCAGCC TCTGCTTGCT TGTGTACCCT GAGGT	
CTCACTTTTT CCTTCAGGTT CTCAGGGGAC AGGCTGACCA GGATC	
GAAGCTCCAG AGGATCCCCA GGAGGCCCTA GAGGAGCACC AAAGC	
ATCTGTAAGT AAGCCTTTGT TAGAGCCTCC AAGGTTCAGT TTTTA	
GGCTTCTCAC ATGCTCCCTC TCTCTCCAGG CCAGTGGGTC TCCAT	ITGCCC 600
AGCTCCTGCC CACACTCCTG CCTGTTGCGG TGACCAGAGT CGTC	644
ATG TCT CTT GAG CAG AAG AGT CAG CAC TGC AAG CCT C	
GGC CTT GAC ACC CAA GAA GAG CCC TGG GCC TGG TGG C	GTG TGC 728
AGG CTG CCA CTA CTG AGG AGC AGG AGG CTG TGT CCT C	CCT CCT 770
CTC CTC TGG TCC CAG GCA CCC TGG GGG AGG TGC CTG (	CTG CTG 812
GGT CAC CAG GTC CTC TCA AGA GTC CTC AGG GAG CCT (	CCG CCA 854
TCC CCA CTG CCA TCG ATT TCA CTC TAT GGA GGC AAT (	CCA TTA 896
AGG GCT CCA GCA ACC AAG AAG AGG AGG GGC CAA GCA C	CCT CCC 938
CTG ACC CAG AGT CTG TGT TCC GAG CAG CAC TCA GTA	AGA AGG 980
TGG CTG ACT TGA	992
TTCATTTTCT GCTCCTCAAG TATTAAGTCA AGGAGCCGGT CACAA	AAGGCA 1042
GAAATGCTGG AGAGCGTCAT CAAAAATTAC AAGCGCTGCT TTCCT	TGAGAT 1092
CTTCGGCAAA GCCTCCGAGT CCTTGCAGCT GGTCTTTGGC ATTGA	ACGTGA 1142
AGGAAGCGGA CCCCACCAGC AACACCTACA CCCTTGTCAC CTGCC	CTGGGA 1192
CTCCTATGAT GGCCTGGTGG TTTAATCAGA TCATGCCCAA GACGC	GGCCTC 1242
CTGATAATCG TCTTGGGCAT GATTGCAATG GAGGGCAAAT GCGTC	CCCTGA 1292
GGAGAAAATC TGGGAGGAGC TGGGTGTGAT GAAGGTGTAT GTTGC	GGAGGG 1342
AGCACAGTGT CTGTGGGGAG CCCAGGAAGC TGCTCACCCA AGATT	TTGGTG 1392
CAGGAAAACT ACCTGGAGTA CCGCAGGTGC CCAGCAGTGA TCCCA	ATATGC 1442
TATGAGTTAC TGTGGGGTCC AAGGGCACTC GCTGCTTGAA AGTAC	CTGGAG 1492
CACGTGGTCA GGGTCAATGC AAGAGTTCTC ATTTCCTACC CATCO	CCTGCA 1542
TGAAGCAGCT TTGAGAGAGG AGGAAGAGGG AGTCTGAGCA TGAGC	CTGCAG 1592
CCAGGGCCAC TGCGAGGGGG GCTGGGCCAG TGCACCTTCC AGGGC	CTCCGT 1642
CCAGTAGTTT CCCCTGCCTT AATGTGACAT GAGGCCCATT CTTCT	
TGAAGAGAC AGTCAACATT CTTAGTAGTG GGTTTCTGTT CTATT	TGGATG 1742
ACTTTGAGAT TTGTCTTTGT TTCCTTTTGG AATTGTTCAA ATGTT	
TAATGGGTGG TTGAATGAAC TTCAGCATTC AAATTTATGA ATGAC	

TCACACATAG	TGCTGTTTAT	ATAGTTTAGG	AGTAAGAGTC	TTGTTTTTTA	1892
TTCAGATTGG	GAAATCCATT	CCATTTTGTG	AATTGGGACA	TAGTTACAGC	1942
<b>A</b> GTGGAATAA	GTATTCATT	AGAAATGTGA	ATGAGCAGTA	AAACTGATGA	1992
GATAAAGAAA	TTAAAAGA <b>TA</b>	TTTAATTCTT	GCCTTATACT	CAGTCTATTC	2042
GGTAAAATTT	TTTTTTAAAA	ATGTGCATAC	CTGGATTTCC	TTGGCTTCTT	2092
TGAGAATGTA	AGACAAATTA	AATCTGAATA	AATCATTCTC	CCTGTTCACT	2142
GGCTCATTTA	TTCTCTATGC	ACTGAGCATT	TGCTCTGTGG	AAGGCCCTGG	2192
GTTAATAGTG	GAGATGCTAA	GGTAAGCCAG	ACTCACCCCT	ACCCACAGGG	2242
TAGTAAAGTC	TAGGAGCAGC	AGTCATATAA	TTAAGGTGGA	GAGATGCCCT	2292
CTAAGATGTA	GAG				2305

- (2) INFORMATION FOR SEQUENCE ID NO: 18:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 225 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-6 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

TAT	TTC	TTT	CCT	GTG	ATC	TTC	AGC	AAA	GCT	TCC	GAT	TCC	TTG	42
CAG	CTG	GTC	TTT	GGC	ATC	GAG	CTG	ATG	GAA	GTG	GAC	CCC	ATC	84
GGC	CAC	GTG	TAC	ATC	TTT	GCC	ACC	TGC	CTG	GGC	CTC	TCC	TAC	126
GAT	GGC	CTG	CTG	GGT	GAC	AAT	CAG	ATC	ATG	CCC	AGG	ACA	GGC	168
TTC	CTG	ATA	ATC	ATC	CTG	GCC	ATA	ATC	GCA	AGA	GAG	GGC	GAC	210
TGT	GCC	CCT	GAG	GAG										225

- (2) INFORMATION FOR SEQUENCE ID NO: 19:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1947 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-7 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

TGAATGGACA	ACAAGGGCCC	CACACTCCCC	AGAACACAAG	GGACTCCAGA	50
GAGCCCAGCC	TCACCTTCCC	TACTGTCAGT	CCTGCAGCCT	CAGCCTCTGC	100
TGGCCGGCTG	TACCCTGAGG	TGCCCTCTCA	CTTCCTCCTT	CAGGTTCTCA	150
GCGGACAGGC	CGGCCAGGAG	GTCAGAAGCC	CCAGGAGGCC	CCAGAGGAGC	200

ACCGAAGGAG AAGATCTGTA AGTAGGCCTT		250
GGTTCACAAA TGAGGCCCCT CACAAGCTCC	TTCTCTCCCC AGATCTGTGG	300
GTTCCTCCCC ATCGCCCAGC TGCTGCCCGC		350
CCAGAGTCAT CATGTCTTCT GAGCAGAGGA		400
GATGCCTTGA GGCCCAAGGA CAGGAGGCTC		450
GCTCCCGCCA CCGAGGAGCA CGAGGCTGCC		500
AGGCACCCTG GAGGAGGTGC CTGCTGCTGG		550
GTCTCAGGGT TCCTCCTTTT CCCTGACCAT		600
GCCAATCCAG TGAGGGCACC AGCAGCCGGG		650
TAGACACC CCGCTCACCT GGCGTCCTTG	TTCCA	685
ATG GGA AGG TGG CTG AGT TGG TTC C	GCT TCC TGC TGC ACA AGT	727
ATC GAG TCA AGG AGC TGG TCA CAA	AGG CAG AAA TGC TGG ACA	769
GTG TCA TCA AAA ATT ACA AGC ACT A	AGT TTC CTT GTG ATC TAT	811
GGC AAA GCC TCA GAG TGC ATG CAG C	FTG ATG TTT GGC ATT GAC	853
ATG AAG GAA GTG GAC CCC GCG GCC A	ACT CCT ACG TCC TTG TCA	895
CCT GCT TGG GCC TCT CCT ACA ATG C	GCC TGC TGG GTG ATG ATC	937
AGA GCA TGC CCG AGA CCG GCC TTC 1	rga	964
TTATGGTCTT GACCATGATC TTAATGGAGG	GCCACTGTGC CCCTGAGGAG	1014
GCAATCTGGG AAGCGTTGAG TGTAATGGTG	TATGATGGGA TGGAGCAGTT	1064
TCTTTGGGCA GCTGAGGAAG CTGCTCACCC	AAGATTGGGT GCAGGAAAAC	1114
TACCTGCAAT ACCGCCAGGT GCCCAGCAGT	GATCCCCGT GCTACCAGTT	1164
CCTGTGGGGT CCAAGGGCCC TCATTGAAAC	CAGCTATGTG AAAGTCCTGG	1214
AGTATGCAGC CAGGGTCAGT ACTAAAGAGA	GCATTTCCTA CCCATCCCTG	1264
CATGAAGAGG CTTTGGGAGA GGAGGAAGAG	GGAGTCTGAG CAGAAGTTGC	1314
AGCCAGGGCC AGTGGGGCAG ATTGGGGGAG	GGCCTGGGCA GTGCACGTTC	1364
CACACATCCA CCACCTTCCC TGTCCTGTTA	CATGAGGCCC ATTCTTCACT	1414
CTGTGTTTGA AGAGAGCAGT CAATGTTCTC	AGTAGCGGGG AGTGTGTTGG	1464
GTGTGAGGGA ATACAAGGTG GACCATCTCT		1514
GATTTGGAGG TTTATCTTTG TTTCCTTTTG		1564
TTAATGGATG GTGTAATGAA CTTCAACATT		1614
GCAGACTTAC TGTTTTTTAT ATAGTTAAAA		1664
TTATGTAAGA AAATCTATGT TATTTCTTGA		1714
CAGAGGATTA AGTACCTTTT ATAATGTGAA	·	1764
GTGAGATAAA GAAATAAAGA AATTAAATTG		1814
CCTGTAATCC CAGCACTTTA GGAGGCAGAG		1864
GGAGATCGAG ACCATTCTGG CTAACACAGT	GAAACACCAT CTCTATTAAA	1914
AATACAAAAC TTAGCCGGGC GTGGTGGCGG	GTG	1947

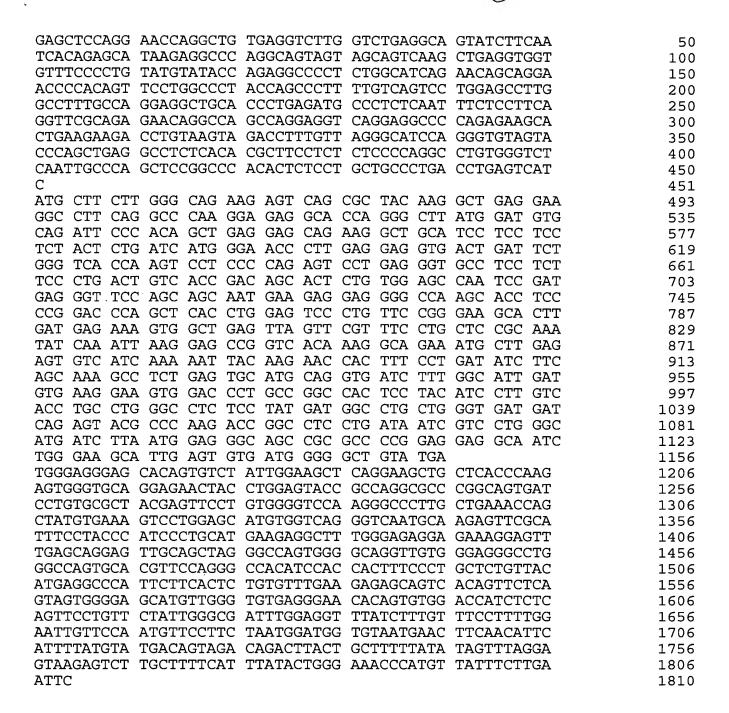
- (2) INFORMATION FOR SEQUENCE ID NO: 20:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1810 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single

    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-8 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

ACCGAAGGAG AAGATCTGTA AGTAGGCCTT TGTTAGGGCC TCCAGGGCGT	250
GGTTCACAAA TGAGGCCCCT CACAAGCTCC TTCTCTCCCC AGATCTGTGG	300
GTTCCTCCCC ATCGCCCAGC TGCTGCCCGC ACTCCAGCCT GCTGCCCTGA	350
CCAGAGTCAT CATGTCTTCT GAGCAGAGGA GTCAGCACTG CAAGCCTGAG	400
GATGCCTTGA GGCCCAAGGA CAGGAGGCTC TGGGCCTGGT GGGTGCGCAG	450
GCTCCCGCCA CCGAGGAGCA CGAGGCTGCC TCCTCCTTCA CTCTGATTGA	500
AGGCACCCTG GAGGAGGTGC CTGCTGCTGG GTCCCCCAGT CCTCCCCTGA	550
GTCTCAGGGT TCCTCCTTTT CCCTGACCAT CAGCAACAAC ACTCTATGGA	600
GCCAATCCAG TGAGGGCACC AGCAGCCGGG AAGAGGAGGG GCCAACCACC	650
TAGACACAC CCGCTCACCT GGCGTCCTTG TTCCA	685
ATG GGA AGG TGG CTG AGT TGG TTC GCT TCC TGC TGC ACA AGT	727
ATC GAG TCA AGG AGC TGG TCA CAA AGG CAG AAA TGC TGG ACA	769
GTG TCA TCA AAA ATT ACA AGC ACT AGT TTC CTT GTG ATC TAT	811
GGC AAA GCC TCA GAG TGC ATG CAG GTG ATG TTT GGC ATT GAC	853
ATG AAG GAA GTG GAC CCC GCG GCC ACT CCT ACG TCC TTG TCA	895
CCT GCT TGG GCC TCT CCT ACA ATG GCC TGC TGG GTG ATG ATC	937
AGA GCA TGC CCG AGA CCG GCC TTC TGA	964
TTATGGTCTT GACCATGATC TTAATGGAGG GCCACTGTGC CCCTGAGGAG	1014
GCAATCTGGG AAGCGTTGAG TGTAATGGTG TATGATGGGA TGGAGCAGTT	1064
TCTTTGGGCA GCTGAGGAAG CTGCTCACCC AAGATTGGGT GCAGGAAAAC	1114
TACCTGCAAT ACCGCCAGGT GCCCAGCAGT GATCCCCCGT GCTACCAGTT	1164
CCTGTGGGGT CCAAGGGCCC TCATTGAAAC CAGCTATGTG AAAGTCCTGG	1214
AGTATGCAGC CAGGGTCAGT ACTAAAGAGA GCATTTCCTA CCCATCCCTG	1264
CATGAAGAGG CTTTGGGAGA GGAGGAAGAG GGAGTCTGAG CAGAAGTTGC	1314
AGCCAGGGCC AGTGGGGCAG ATTGGGGGAG GGCCTGGGCA GTGCACGTTC	1364
CACACATCCA CCACCTTCCC TGTCCTGTTA CATGAGGCCC ATTCTTCACT	1414
CTGTGTTTGA AGAGAGCAGT CAATGTTCTC AGTAGCGGGG AGTGTGTTGG	1464
GTGTGAGGGA ATACAAGGTG GACCATCTCT CAGTTCCTGT TCTCTTGGGC	1514
GATTTGGAGG TTTATCTTTG TTTCCTTTTG CAGTCGTTCA AATGTTCCTT	1564
TTAATGGATG GTGTAATGAA CTTCAACATT CATTTCATGT ATGACAGTAG	1614
GCAGACTTAC TGTTTTTAT ATAGTTAAAA GTAAGTGCAT TGTTTTTAT	1664
TTATGTAAGA AAATCTATGT TATTTCTTGA ATTGGGACAA CATAACATAG	1714
CAGAGGATTA AGTACCTTTT ATAATGTGAA AGAACAAAGC GGTAAAATGG	1764
GTGAGATAAA GAAATAAAGA AATTAAATTG GCTGGGCACG GTGGCTCACG	1814
CCTGTAATCC CAGCACTTTA GGAGGCAGAG GCACGGGGAT CACGAGGTCA	1864
GGAGATCGAG ACCATTCTGG CTAACACAGT GAAACACCAT CTCTATTAAA	1914
AATACAAAAC TTAGCCGGGC GTGGTGGCGG GTG	1947

- (2) INFORMATION FOR SEQUENCE ID NO: 20:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1810 base pairs
    - (B) TYPE: nucleic acid (C) STRANDEDNESS: single

    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-8 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:



#### INFORMATION FOR SEQUENCE ID NO: 21: (2)

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1412 base pairs
  - (B) TYPE: nucleic acid (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
  (ii) MOLECULE TYPE: genomic DNA
- (ix) FEATURE:



# (A) NAME/KEY: MAGE-9 gene (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

TCTGAGACAG TGTCCTCAG	G TCGCAGAGC	A GAGGAGACCC	AGGCAGTGTC	50
AGCAGTGAAG GTGAAGTGT	T CACCCTGAA	T GTGCACCAAG	GGCCCCACCT	100
GCCCCAGCAC ACATGGGAC	C CCATAGCAC	C TGGCCCCATT	CCCCCTACTG	150
TCACTCATAG AGCCTTGAT	C TCTGCAGGC	T AGCTGCACGC	TGAGTAGCCC	200
TCTCACTTCC TCCCTCAGG	T TCTCGGGAC	A GGCTAACCAG	GAGGACAGGA	250
GCCCCAAGAG GCCCCAGAG	C AGCACTGAC	G AAGACCTGTA	AGTCAGCCTT	300
TGTTAGAACC TCCAAGGTT	C GGTTCTCAG	C TGAAGTCTCT	CACACACTCC	350
CTCTCTCCCC AGGCCTGTG	G GTCTCCATC	G CCCAGCTCCT	GCCCACGCTC	400
CTGACTGCTG CCCTGACCA	G AGTCATC			427
ATG TCT CTC GAG CAG	AGG AGT CCG	CAC TGC AAG	CCT GAT GAA	469
GAC CTT GAA GCC CAA	GGA GAG GAC	TTG GGC CTG	ATG GGT GCA	511
CAG GAA CCC ACA GGC	GAG GAG GAG	GAG ACT ACC	TCC TCC TCT	553
GAC AGC AAG GAG GAG	GAG GTG TCT	GCT GCT GGG	TCA TCA AGT	595
CCT CCC CAG AGT CCT	CAG GGA GGC	GCT TCC TCC	TCC ATT TCC	637
GTC TAC TAC ACT TTA				679
AGT CAA GAA GAG GAA	GAG CCA AGC	TCC TCG GTC	GAC CCA GCT	721
			TTG AAG GTG	763
GCT GAG TTG GTT CAT	TTC CTG CTC	CAC AAA TAT	CGA GTC AAG	805
GAG CCG GTC ACA AAG	GCA GAA ATG	CTG GAG AGC	GTC ATC AAA	847
	TTT CCT GTG		AAA GCC TCC	889
GAG TTC ATG CAG GTG	ATC TTT GGC	ACT GAT GTG	AAG GAG GTG	931
GAC CCC GCC GGC CAC	TCC TAC ATC	CTT GTC ACT	GCT CTT GGC	973
CTC TCG TGC GAT AGC				
AAG GCC GCC CTC CTG	ATC ATT GTC	CTG GGT GTG	ATC CTA ACC	1057
AAA GAC AAC TGC GCC	CCT GAA GAG	GTT ATC TGG	GAA GCG TTG	1099
AGT GTG ATG GGG GTG	TAT GTT GGG	AAG GAG CAC	ATG TTC TAC	1141
GGG GAG CCC AGG AAG	CTG CTC ACC	CAA GAT TGG	GTG CAG GAA	1183
AAC TAC CTG GAG TAC	CGG CAG GTG	CCC GGC AGT	GAT CCT GCG	1225
CAC TAC GAG TTC CTG	TGG GGT TCC	AAG GCC CAC	GCT GAA ACC	1267
AGC TAT GAG AAG GTC	ATA AAT TAT	TTG GTC ATG	CTC AAT GCA	1309
AGA GAG CCC ATC TGC	TAC CCA TCC	CTT TAT GAA	GAG GTT TTG	1351
GGA GAG GAG CAA GAG	GGA GTC TGA			1375
GCACCAGCCG CAGCCGGGG	1412			

- (2) INFORMATION FOR SEQUENCE ID NO: 22:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 920 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-10 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

ACC	rgct	CCA (	GGAC?	AAAG:	rg g <i>i</i>	ACCC	CACTO	G CA	rcag(	CTCC	ACC:	racco	CTA	50
CTGT	CAG:	rcc :	rgga(	GCCT:	rg go	CCTC	rgccc	GC.	rgca:	CCT	GAG	GAGC	CAT	100
CTCT	CAC:	rtc (	CTTC	rtca(	GG T	rctc?	AGGGC	AC	AGGG <i>I</i>	AGAG	CAA	GAGG:	ГСА	150
AGAC	GTG:	rgg (	GACA	CCAC	AG AC	GCAG	CACTO	AA E	GGAG <i>I</i>	AAGA	CCT	STAAC	GTT	200
GGC	CTTTC	GTT A	AGAA(	CCTC	CA GO	GTG:	rggt:	CT(	CAGC	GTG	GCC	ACTTA	ACA	250
CCCI	CCC.	rct (	CTCC	CCAG	GC CI	rgtgo	GTC	CCA	ATCG	CCCA	AGT	CCTG	CCC	300
ACAC	CTCC	CAC (	CTGC	racco	CT GA	ATCAC	GAGT	CAT	C					333
ATG	CCT	CGA	GCT	CCA	AAG	CGT	CAG	CGC	TGC	ATG	CCT	GAA	GAA	375
GAT	CTT	CAA	TCC	CAA	AGT	GAG	ACA	CAG	GGC	CTC	GAG	GGT	GCA	417
CAG	GCT	CCC	CTG	GCT	GTG	GAG	GAG	GAT	GCT	TCA	TCA	TCC	ACT	459
TCC	ACC	AGC	TCC	TCT	TTT	CCA	TCC	TCT	TTT	CCC	TCC	TCC	TCC	501
TCT	TCC	TCC	TCC	TCC	TCC	TGC	TAT	CCT	CTA	ATA	CCA	AGC	ACC	543
CCA	GAG	GAG	GTT	TCT	GCT	GAT	GAT	GAG	ACA	CCA	AAT	CCT	CCC	585
CAG	AGT	GCT	CAG	ATA	GCC	TGC	TCC	TCC	CCC	TCG	GTC	GTT	GCT	627
TCC	CTT	CCA	TTA	GAT	CAA	TCT	GAT	GAG	GGC	TCC	AGC	AGC	CAA	669
AAG	GAG	GAG	AGT	CCA	AGC	ACC	CTA	CAG	GTC	CTG	CCA	GAC	AGT	711
GAG	TCT	TTA	CCC	AGA	AGT	GAG	ATA	GAT	GAA	AAG	GTG	ACT	GAT	753
TTG	GTG	CAG	TTT	CTG	CTC	TTC	AAG	TAT	CAA	ATG	AAG	GAG	CCG	795
ATC	ACA	AAG	GCA	GAA	ATA	CTG	GAG	AGT	GTC	ATA	AAA	AAT	TAT	837
GAA	GAC	CAC	TTC	CCT	TTG	TTG	TTT	AGT	GAA	GCC	TCC	GAG	TGC	879
ATG	CTG	CTG	GTC	TTT	GGC	ATT	GAT	GTA	AAG	GAA	GTG	GAT	CC	920

- (2) INFORMATION FOR SEQUENCE ID NO: 23:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 1107 base pairs (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: MAGE-11 gene
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

AGAGAACAGG CCAACCTGGA GGACAGGA	GT CCCAGGAGAA CCCAGAGGAT	50
CACTGGAGGA GAACAAGTGT AAGTAGGC	CT TTGTTAGATT CTCCATGGTT	100
CATATCTCAT CTGAGTCTGT TCTCACGC	TC CCTCTCTCCC CAGGCTGTGG	150
GGCCCCATCA CCCAGATATT TCCCACAG	TT CGGCCTGCTG ACCTAACCAG	200
AGTCATCATG CCTCTTGAGC AAAGAAGT	CA GCACTGCAAG CCTGAGGAAG	250
CCTTCAGGCC CAAGAAGAAG ACCTGGGC	CT GGTGGGTGCA CAGGCTCTCC	300
AAGCTGAGGA GCAGGAGGCT GCCTTCTT	CT CCTCTACTCT GAATGTGGGC	350
ACTCTAGAGG AGTTGCCTGC TGCTGAGT	CA CCAAGTCCTC CCCAGAGTCC	400
TCAGGAAGAG TCCTTCTCTC CCACTGCC	AT GGATGCCATC TTTGGGAGCC	450
TATCTGATGA GGGCTCTGGC AGCCAAGA	AA AGGAGGGCC AAGTACCTCG	500
CCTGACCTGA TAGACCCTGA GTCCTTTT	CC CAAGATATAC TACATGACAA	550
GATAATTGAT TTGGTTCATT TATTCTCC	GC AAGTATCGAG TCAAGGGGCT	600
GATCACAAAG GCAGAA		616
ATG CTG GGG AGT GTC ATC AAA AA	T TAT GAG GAC TAC TTT CCT	658
GAG ATA TTT AGG GAA GCC TCT GT	A TGC ATG CAA CTG CTC TTT	700

GGC	ATT	GAT	GTG	AAG	GAA	GTG	GAC	CCC	ACT	AGC	CAC	TCC	TAT	742
GTC	CTT	GTC	ACC	TCC	CTC	AAC	CTC	TCT	TAT	GAT	GGC	ATA	CAG	784
TGT	AAT	GAG	CAG	AGC	ATG	CCC	AAG	TCT	GGC	CTC	CTG	ATA	ATA	826
GTC	CTG	GGT	GTA	ATC	TTC	ATG	GAG	GGG	AAC	TGC	ATC	CCT	GAA	868
GAG	GTT	ATG	TGG	GAA	GTC	CTG	AGC	ATT	ATG	GGG	GTG	TAT	GCT	910
GGA	AGG	GAG	CAC	TTC	CTC	TTT	GGG	GAG	CCC	AAG	AGG	CTC	CTT	952
ACC	CAA	AAT	TGG	GTG	CAG	GAA	AAG	TAC	CTG	GTG	TAC	CGG	CAG	994
GTG	CCC	GGC	ACT	GAT	CCT	GCA	TGC	TAT	GAG	TTC	CTG	TGG	GGT	1036
CCA	AGG	GCC	CAC	GCT	GAG	ACC	AGC	AAG	ATG	AAA	GTT	CTT	GAG	1078
TAC	ATA	GCC	AAT	GCC	AAT	GGG	AGG	GAT	CC					1107

- (2) INFORMATION FOR SEQUENCE ID NO: 24:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2150 base pairs
    - (B) TYPE: nucleic acid (C) STRANDEDNESS: single

    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA
  - (ix) FEATURE:
    - (A) NAME/KEY: smage-I
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

TCTGTCTGCA TATGCCTCCA CTTGTGTGTA GCAGTCTCAA ATGGATCTCT	50
	.00
	.50
	00
	50
	00
	50
	94
• • •	36
	78
	20
	65
	04
	46
	88
	30
	72
	14
	56
	98
	40
	82
	24
	66
	.08
	.50
	.92
	34
	76
	14
	60
ACA ACC AAG ATG AAA GTC CTG GAA GTT TTA GCT AAA GTC AAT	02
	44
CTT AGA GAT CAG GCA GGA GGG GTG CCA AGA AGG AGA GTT CAA 14	86
	28
	37
	87
	37
ACATTAGTAG AATGGAGGCT ATTTTTGTTA CTTTTCAAAT GTTTGTTTAA 16	87

TGTCACTTGT ACATTATTTT GATTGTCATG GGAAAGTTTA TACTTTTTTC GACTTTACTC	CTTTTTGCCA CAGATTAGGA GTTTTTACTA GCAATGTGAT TATTGTTAAT TTTTTTGTAT AAATTCATTA CAATTATGAA	CTTGTTTTGT AAACATTGTG ATCATACAGT TTTGAAAATT AATGCTAAGT GAAAGTAAAT	TATTTGCAAC TAACATTGCA GGTGAAACAA TTATGAGTGT GAAATAAAGT CGTAAAACTC	AAACTGGAAA TTGGAGAAGG CAGTGAAGTG GATTGCTGTA TGGATTTGAT TATTACTTTA	1737 1787 1837 1887 1937 1987 2037 2087
TTATTTTCTT	CAATTATGAA ATCTAGTATG	TTAAGCATTG	GTTATCTGGA	AGTTTCTCCA	

- (2) INFORMATION FOR SEQUENCE ID NO: 25:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 2099 base pairs (B) TYPE: nucleic acid
    - (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: genomic DNA

  - (ix) FEATURE:
    (A) NAME/KEY: smage-II
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

ACCTTATTGG	GTCTGTCTGC	ATATGCCTCC	ACTTGTGTGT	AGCAGTCTCA	50
AATGGATCTC	TCTCTACAGA	CCTCTGTCTG	TGTCTGGCAC	CCTAAGTGGC	100
TTTGCATGGG	CACAGGTTTC	TGCCCCTGCA	TGGAGCTTAA	ATAGATCTTT	150
CTCCACAGGC	CTATACCCCT	GCATTGTAAG	TTTAAGTGGC	TTTATGTGGA	200
TACAGGTCTC	TGCCCTTGTA	TGCAGGCCTA	AGTTTTTCTG	TCTGCTTAGC	250
CCCTCCAAGT	GAAGCTAGTG	AAAGATCTAA	CCCACTTTTG	GAAGTCTGAA	300
ACTAGACTTT	TATGCAGTGG	CCTAACAAGT	TTTAATTTCT	TCCACAGGGT	350
TTGCAGAAAA	GAGCTTGATC	CACGAGTTCG	GAAGTCCTGG	TATGTTCCTA	400
GAAAGATGTT	CTCCTGGAAA	GCTTCAAAAG	CCAGGTCTCC	ATTAAGTCCA	450
AGGTATTCTC	TACCTGGTAG	TACAGAGGTA	CTTACAGGTT	GTCATTCTTA	500
TCTTTCCAGA	TTCCTGTCTG	CCAGCTCTTT	TACTTCAGCC	CTGAGCACAG	550
TCAACATGCC	TAGGGGTCAA	AAGAGTAAGA	CCCGCTCCCG	TGCAAAACGA	600
CAGCAGTCAC	GCAGGGAGGT	TCCAGTAGTT	CAGCCCACTG	CAGAGGAAGC	650
AGGGTCTTCT	CCTGTTGACC	AGAGTGCTGG	GTCCAGCTTC	CCTGGTGGTT	700
CTGCTCCTCA	GGGTGTGAAA		CTTTTGGTGC	AGGTGTATCC	750
TGCACAGGCT	CTGGTATAGG	TGGTAGAAAT	GCTGCTGTCC	TGCCTGATAC	800
AAAAAGTTCA	GATGGCACCC	AGGCAGGGAC	TTCCATTCAG	CACACACTGA	850
AAGATCCTAT	CATGAGGAAG	GCTAGTGTGC	TGATAGAATT	CCTGCTAGAT	900
AAGTTTAAGA	TGAAAGAAGC		AGTGAAATGC	TGGCAGTAGT	950
TAACAAGAAG	TATAAGGAGC	AATTCCCTGA		AGAACTTCTG	1000
CACGCCTAGA		GGTCTTGAGT	TGAAGGAAAT	TGATCCCAGC	1050
ACTCATTCCT	ATTTGCTGGT	AGGCAAACTG	GGTCTTTCCA	CTGAGGGAAG	1100
TTTGAGTAGT	AACTGGGGGT	TGCCTAGGAC	AGGTCTCCTA		1150
TAGGTGTGAT	CTTCATGAAG	GGTAACCGTG		AGAGGTCTGG	1200
	ATGGAGTGGG	GGTATATGCT	GGGAAGAAGC		1250
TGGCGAGCCT	GAGGAGTTTA	TAAGAGATGT	AGTGCGGGAA		1300
AGTACCGCCA	GGTACCTGGC	AGTGATCCCC	CAAGCTATGA	GTTCCTGTGG	1350

	GGACCCAGAG	CCCATGCTGA	AACAACCAAG	ATGAAAGTCC	TGGAAGTTTT	1400
	AGCTAAAGTC	AATGGCACAG	TCCCTAGTGC	CTTCCCTAAT	CTCTACCAGT	1450
	TGGCTCTTAG	AGATCAGGCA	GGAGGGGTGC	CAAGAAGGAG	AGTTCAAGGC	1500
	AAGGGTGTTC	ATTCCAAGGC	CCCATCCCAA	AAGTCCTCTA	ACATGTAGTT	1550
	GAGTCTGTTC	TGTTGTGTTT	GAAAAACAGT	CAGGCTCCTA	ATCAGTAGAG	1600
	AGTTCATAGC	CTACCAGAAC	CAACATGCAT	CCATTCTTGG	CCTGTTATAC	1650
	ATTAGTAGAA	TGGAGGCTAT	TTTTGTTACT	TTTCAAATGT	TTGTTTAACT	1700
	AAACAGTGCT	TTTTGCCATG	CTTCTTGTTA	ACTGCATAAA	GAGGTAACTG	1750
	TCACTTGTCA	GATTAGGACT	TGTTTTGTTA	TTTGCAACAA	ACTGGAAAAC	1800
	ATTATTTTGT	TTTTACTAAA	ACATTGTGTA	ACATTGCATT	GGAGAAGGGA	1850
	TTGTCATGGC	AATGTGATAT	CATACAGTGG	TGAAACAACA	GTGAAGTGGG	1900
	AAAGTTTATA	TTGTTAGTTT	TGAAAATTTT	ATGAGTGTGA	TTGCTGTATA	1950
	CTTTTTTCTT	TTTTGTATAA	TGCTAAGTGA	AATAAAGTTG	GATTTGATGA	2000
	CTTTACTCAA	ATTCATTAGA	AAGTAAATCA	TAAAACTCTA	TTACTTTATT	2050
/	ATTTTCTTCA	ATTATTAATT	AAGCATTGGT	TATCTGGAAG	TTTCTCCAG	2099

INFORMATION FOR SEQUENCE ID NO: 26:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 9 amino acids

amino acids

(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: protein
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

Glu Ala Asp Pro Thr Gly His Ser Tyr